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Summary Report for  
Development of a Lightweight Plastic Neutron Shielding  
Material Based Upon Boron Compounds With  
High Hydrogen Content

Part A

by

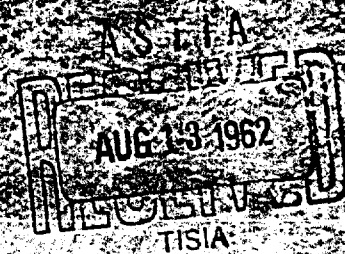
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3 April 1962

Contract No. DA-19-020-ORD-5458

OCO, R and D  
Branch Project No. 5510.12.285  
Department of the  
Army Project No. 548-03-003



**MONSANTO RESEARCH CORPORATION**

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Report No.  
MRC-62-4501-7A

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Monsanto Research Corporation  
Dayton Laboratory  
Dayton 7, Ohio

For

Feltman Research and Engineering Laboratories  
Picatinny Arsenal, Dover, New Jersey

Requests for additional copies of this report  
should be made direct to ASTIA

<p>Accession No. _____</p> <p>Monsanto Research Corporation Dayton Laboratory, Dayton, Ohio</p> <p>DEVELOPMENT OF A LIGHTWEIGHT PLASTIC NEUTRON SHIELDING MATERIAL BASED UPON BORON COMPOUNDS WITH HIGH HYDROGEN CONTENT</p> <p>H. Yanko, M. E. Ginn, J. L. Schwendeman, L. Yoder, C. C. Richtusa, D. J. Kaufman</p> <p>Technical Report MRC-62-4501-7A, April 1962, 171 pp. Tables, figures. Contract DA-19-020-ORD-5458; DA Project No. 548-03-003; R&amp;D Proj. No. 5510.12.285 Unclassified Section, distribution limited</p> <p>All known boron compounds, composed of elements of atomic numbers 1 through 20, were evaluated for neutron shielding properties vs. high density polyethylene, containing 6% amorphous boron, by comparison of calculated neutron removal cross-sections and hydrogen densities.</p> <p>(over)</p>	<p>Accession No. _____</p> <p>Monsanto Research Corporation Dayton Laboratory, Dayton, Ohio</p> <p>DEVELOPMENT OF A LIGHTWEIGHT PLASTIC NEUTRON SHIELDING MATERIAL BASED UPON BORON COMPOUNDS WITH HIGH HYDROGEN CONTENT</p> <p>H. Yanko, M. E. Ginn, J. L. Schwendeman, L. Yoder, C. C. Richtusa, D. J. Kaufman</p> <p>Technical Report MRC-62-4501-7A, April 1962, 171 pp. Tables, figures. Contract DA-19-020-ORD-5458; DA Project No. 548-03-003; R&amp;D Proj. No. 5510.12.285 Unclassified Section, distribution limited</p> <p>All known boron compounds, composed of elements of atomic numbers 1 through 20, were evaluated for neutron shielding properties vs. high density polyethylene, containing 6% amorphous boron, by comparison of calculated neutron removal cross-sections and hydrogen densities.</p> <p>(over)</p>	<p>UNCLASSIFIED</p> <p>1. Boron Compounds - Literature Survey 2. Neutron Shielding 3. Computer Program 4. Cost Estimates</p> <p>UNITERMS</p> <p>Availability Boron Costs Cross-section Density Explosivity Flammability Hydrogen Melting Point Neutron Polyethylene γ-Radiation Stability Toxicity</p> <p>UNCLASSIFIED</p>	<p>UNCLASSIFIED</p> <p>1. Boron Compounds - Literature Survey 2. Neutron Shielding 3. Computer Program 4. Cost Estimates</p> <p>UNITERMS</p> <p>Availability Boron Costs Cross-section Density Explosivity Flammability Hydrogen Melting Point Neutron Polyethylene γ-Radiation Stability Toxicity</p> <p>UNCLASSIFIED</p>
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### ABSTRACT

All known boron compounds, composed of elements of atomic numbers 1 through 20, were evaluated for neutron shielding properties vs. high density polyethylene, containing 6% amorphous boron, by comparison of calculated neutron removal cross-sections and hydrogen densities.

All boron compounds, derived from a comprehensive literature survey up to March 1961, were tabulated along with their pertinent properties: density, hydrogen density, microscopic and macroscopic neutron removal cross-sections, thermal neutron capture gamma-ray energies, melting point, stability and toxicity. Classified compounds are reported separately in Part B, this report. Known densities were available for only 12% of the compounds. A method for calculating densities by use of atomic volume summation corrected by derived factors was devised. An IBM-704 computer program was developed to effect all calculations and a compact print out of all data.

A total of 129 unclassified compounds were found with hydrogen densities and neutron removal cross-sections higher than polyethylene 6% boron. Of these, 7 were selected as neutron shielding candidates. Cost estimates for these and 3 selected classified compounds were made for 50 and 500 lb. samples and at production rates of 2 and 4 million lb./yr.

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## 1. Part I

### (a) Object

To determine those boron compounds which offer neutron shielding properties superior to high density polyethylene, containing 6% amorphous boron.

### (b) Summary

All known boron compounds, composed of elements of atomic numbers 1 through 20, were evaluated for their neutron shielding properties vs. high density polyethylene, containing 6% amorphous boron, by comparison of their calculated neutron removal cross sections and hydrogen densities.

Unclassified and classified literature was surveyed, and all known boron compounds tabulated. The unclassified literature comprising Gmelin Handbook der anorganischen Chemie, Monsanto's boron compound compilation for 1950-7 and Chemical Abstracts yielded 4485 compounds of which 3653 were organic materials. The classified literature searched included Solid and Liquid Propellant Information Abstracts (SLPIA and LPIA) and ASTIA documents.

Calculation methods were devised for physical density (when unknown), hydrogen density, microscopic neutron removal cross sections, macroscopic neutron removal cross sections, gamma-ray energy produced per molecule per neutron capture and macroscopic gamma-ray energy. Since no densities were reported for about 88% of the boron compounds obtained, two methods were devised for physical density: (1) estimation by comparison with known values of homologous compounds and (2) calculation by summation of atomic volumes using derived correction factors. Five other density calculation methods were investigated but proved inaccurate or inadequate for general use on the large volume of compounds involved. Although the density methods used were in most cases accurate to within  $\pm 10\%$ , this uncertainty directly affects the accuracy of the important shielding parameters of macroscopic neutron removal cross sections and hydrogen density.

An IBM-704 computer program, described in the Experimental Section, was developed for the calculation of the above parameters of all known boron compounds. A suitable compact print out of all boron compounds complete with reference, formula, shielding parameters and suitable physical and chemical properties was devised to permit compilation of the 4485 unclassified and additional classified materials in a manageable volume. These were listed in a sequence similar to the Chemical Abstracts formula index.

All compounds having macroscopic neutron removal cross sections and hydrogen densities equal to or in excess of 95% of  $0.11507 \text{ cm}^{-1}$  and  $7.96 \times 10^{22} \text{ atoms cm}^{-3}$  respectively, the values for high density polyethylene, containing 6% amorphous boron, were screened from the complete compilation. The 129 unclassified compounds screened were studied and 16 selected which met minimum requirements for neutron shielding. From these seven compounds were chosen which best met the defined optimum properties for neutron shielding. The classified compilation was similarly treated and 3 compounds selected on the basis of approaching optimum neutron shielding properties. Of the unclassified compounds selected as neutron shielding candidates one was a  $\text{BF}_3$ -dodecylamine adduct and the other six were organo-boron-phosphorus polymers. Macroscopic neutron removal cross sections of these varied from  $0.1318$  to  $0.1409 \text{ cm}^{-1}$  and hydrogen densities ranged from  $8.35$  to  $9.38 \times 10^{22} \text{ atoms cm}^{-3}$ .

Rough cost estimates were made on the ten selected boron compound shielding candidates for 50 and 500 lb. lots and at production rates of 2 and 4 million lbs. per year. At the highest production rates costs ranged from \$1.02 to \$65.00 per lb. Nine of the materials required the expensive boron hydride starting materials, and their cost estimates ranged from \$5.06 to \$65.00 per lb. For 50 lb. lots costs ranged from \$27.00 to \$3339.00 per lb. High boron hydride and other raw materials costs constituted the chief factor in costs at high production rates. Although at the 50 and 500 lb. rates boron hydride costs were substantially higher, conversion costs were predominant.

A total of 42 boron compounds were conceived which could have higher hydrogen density and better neutron shielding properties than their parent compounds.

### (c) Conclusions

- (1) A number of boron compounds are known having hydrogen densities and macroscopic neutron removal cross sections greater than high density polyethylene, containing 6% amorphous boron.
- (2) Neutron shielding materials, potentially superior to high density polyethylene, containing 6% amorphous boron, may be made with these compounds.
- (3) Known density values are required for accurate theoretical evaluation of the neutron shielding merit of promising boron compounds. The density calculation method, established for all boron compounds comprised of elements of atomic numbers 1 through 20, is usually reliable to about  $\pm 10\%$ .

- (4) The superiority of neutron shields of boron compounds with high hydrogen density and macroscopic neutron removal cross section over high density polyethylene, containing 6% amorphous boron, will have to be proven experimentally.
- (5) Boron compounds, requiring borohydride intermediates for their preparation, are expensive at present due to the cost of these hydrides and other raw materials.

(d) Recommendations

- (1) Preparation of the 10 compounds selected as optimum boron shielding materials. Characterize their properties and theoretically reevaluate their neutron shielding merit.
- (2) Prepare sufficient quantities of those selected from this reevaluation for experimental neutron shielding tests.
- (3) Establish a program for accurate density calculation of boron compounds suitable for neutron shielding. This would include procurement or preparation of representative boron compounds from specific classes, density measurements and calculation methods.
- (4) With these new density values recalculate shielding parameters of all boron compounds compiled whose present shielding parameters exceed 90% of those of high density polyethylene, containing 6% amorphous boron.
- (5) Select additional promising neutron shielding materials from this reevaluation, prepare and test experimentally.
- (6) Explore methods for establishing a figure of merit for neutron shielding and apply to the present compilation of boron compounds.
- (7) Preparation of conceived organoboron compounds to obtain materials with improved hydrogen density.

2. Part II

(a) Introduction

The objective of this study was to find lightweight neutron shielding materials containing boron which have shielding properties superior to high density polyethylene, containing 6% amorphous boron. Such lightweight shields could be very useful in military vehicles.

In general, combinations of boron and hydrogen are effective neutron shielding materials due to their favorable neutron moderating and capture characteristics. For these reasons polyethylene, containing elemental boron, appears to be a good lightweight neutron shield. Since many compounds of boron, containing appreciable amounts of hydrogen, have been synthesized, it appeared that some of these may be superior in neutron shielding over polyethylene-elemental boron combinations. Therefore this study was conducted to theoretically evaluate the neutron shielding properties of many known and possible boron compounds composed of elements of atomic numbers 1 through 20.

Strict evaluation of the neutron shielding properties of the various boron materials with respect to polyethylene plus elemental boron can best be done experimentally. However, such studies would require an immense effort for the large number of known boron compounds. Similarly a thorough theoretical approach, involving a complex program of investigating many parameters for each system, would also be too large a scope for an initial evaluation of the boron field. Therefore a simplified empirical approach was selected which involved screening all known boron compounds with respect to neutron removal cross sections and hydrogen density. Those materials having neutron removal cross sections and hydrogen densities greater than high density polyethylene, containing 5% amorphous boron, would provide the basis for selecting those compounds with superior neutron shielding and adequate chemical and physical properties for further experimental and theoretical studies to develop practical lightweight shields.

A secondary objective in this study was to prepare a complete compilation of all known boron compounds having elements of atomic numbers 1 through 20. In addition to being useful for further neutron shielding studies, this listing will be generally applicable to many phases of boron chemistry.

## (b) Results

### (1) Literature Survey

The literature search yielded 4485 boron compounds (3653 organic, 832 inorganic) from unclassified sources (Compilations A and B). Chemical literature surveyed was Gmelin's Handbook der anorganischen Chemie, Monsanto's boron compound compilation for 1950-7, and Chemical Abstracts Vols. 52 (1958) - 55 (April 1961). Solid and Liquid Propellant Information Abstracts (SPIA and LPIA) and files of the Armed Services Information Agency (ASTIA) were covered for classified compounds and these are given in Compilation C, Part B of this report.



## (2) Calculation Methods

The following properties were calculated for all compiled compounds:

- a) Physical density (g/cc) when unknown
- b) Hydrogen density (atoms  $\times 10^{-22}$ /cc)
- c) Microscopic neutron removal cross section (barns)
- d) Macroscopic neutron removal cross section ( $\text{cm}^{-1}$ )
- e) Gamma-ray energy produced in a molecule per neutron capture (Mev-barns)
- f) Macroscopic gamma-ray energy (Mev- $\text{cm}^{-1}$ )  $\times 10^2$

Two empirical methods were devised for physical densities of compounds when unknown: (1) by comparison with homologous compounds having known densities and (2) from summation of atomic volumes using correction factors. In most cases, these methods yielded densities within +3% and +10% of actual values. Five other methods were evaluated for density computation, but these were inaccurate or unsuitable for use on the large volume of compounds involved in this study. The employed density approximations affect the reliability of density dependent properties: macroscopic removal cross section, macroscopic gamma-ray energy and hydrogen density.

## (3) Computer Program

A computer program was developed for calculation and print out of pertinent information for all compiled compounds. With necessary input data and equations provided, the computer returned full characterization of each compound. In addition to shielding properties and density, the computer printed compound name, formula, molecular weight, literature reference and the following important known properties: state, availability, toxicity, water stability, air stability, explosiveness, resin stability, flammability, thermal stability and melting point.

## (4) Compound Compilation and Print Out

Results were tabulated for all compounds compiled in the literature search. Compilations A and B give description and calculated data for the 4485 unclassified compounds. Classified compounds are given in Part B, Compilation C. All compounds have been sorted and are listed in a sequence similar to the Chemical Abstracts formula index. Pertinent properties and calculated shielding parameters are given for each compound.

### (5) Screening Results

One hundred and twenty-nine (129) unclassified compounds were screened out from the total compilation on the basis of macroscopic removal cross sections (MA) and hydrogen densities similar to or greater than corresponding values of  $0.11507 \text{ cm}^{-1}$  and  $7.96 \times 10^{22} \text{ atoms/cc}$  for high density polyethylene containing 6% amorphous boron. These compounds are given in two lists in order of decreasing macroscopic neutron removal cross-sections:

- 1 - Those apparently meeting the minimum requirements (16 compounds in Table I)
- 2 - Those rejected as candidates because of undesirable physical properties (113 compounds in Table II).

Similar listings for classified compounds are given in Part B, Tables I and II.

### (6) Compounds Selected on the Basis of Optimum Shielding Properties

Six boron polymers and one  $\text{BF}_3$ -amine adduct were selected from the unclassified compounds meeting the minimum requirements (Table III):

- 1 - Trimethylaminotetraborane polymer
- 2 - 1,3-Trimethylene-P,P'-bis(methylphosphinoborane) polymer
- 3 - 3/4 Copolymer of dimethylphosphinoborane/1,3-trimethylene-P,P'-bis(methylphosphinoborane)
- 4 - 1/1 Copolymer of dimethylphosphinoborane/1,3-trimethylene-P,P'-bis(methylphosphinoborane)
- 5 - 3/2 Copolymer of dimethylphosphinoborane/1,3-trimethylene-P,P'-bis(methylphosphinoborane)
- 6 - Dimethylphosphinoborane polymer
- 7 - Boron trifluoride-dodecylamine

These compounds have macroscopic removal cross sections (MA) of  $0.1318$  to  $0.1409 \text{ cm}^{-1}$  and hydrogen densities (HD) of  $8.35$  to  $9.38 \times 10^{22} \text{ atoms/cc}$  (based on calculated physical densities). They therefore appear superior to high density polyethylene containing 6% amorphous boron (MA =  $0.11507 \text{ cm}^{-1}$ , HD =  $7.96 \times 10^{22} \text{ atoms/cc}$ ).

Three classified compounds were selected which also are superior to the polyethylene 6% boron standard (Part B, Table III).

### (7) Cost Estimates

Rough cost estimates (Table IV) were made on ten boron compounds best meeting optimum neutron shielding properties for 50 and 500 lb. lots and at production rates of 2 and  $4 \times 10^6$  lb./yr.

Estimated cost at  $4 \times 10^6$  lb./yr. varied from \$1.02 to \$65/lb. The cheapest material was the boron trifluoride dodecylamine adduct at \$1.02/lb. Next were a classified material (Compound No. 5376) at \$5.06/lb. and trimethylenetetra borine polymer at \$6.25/lb. There were five materials ranging from \$22 to \$23/lb. and two ranging from \$47 to \$65.

In 50 lb. quantities the estimated cost ranged from \$27 to \$3339/lb. Again the least expensive was the boron trifluoride dodecylamine. Next were the classified material No. 5376 at \$345/lb. and trimethylaminotetra borine polymer at \$807/lb. Also there were 3 materials ranging from \$1406 to \$1464/lb., one at \$2012/lb., two at \$3336/lb., and one at \$3339/lb.

### (8) Conceptual Boron Compounds

By study of the known density of various organic and organoboron compounds, empirical rules were devised for improving hydrogen density in specific organoboron compounds. These rules were applied to the 16 unclassified boron compounds meeting minimum requirements for neutron shielding. A total of 42 conceptual compounds were proposed which should have hydrogen densities superior to their original analogs. Many of these 42 are suggestive of a series of other potentially useful shielding materials.

### (c) Discussion of Results

#### (1) Literature Survey

A literature survey was made of all known boron compounds containing elements with atomic numbers 1 through 20, covering the open literature (Gmelin, Monsanto's boron survey, and Chemical Abstracts) and classified documents (SPIA, LPIA and ASTIA). The yield of 4485 unclassified compounds plus additional classified materials reflects the large amount of work done in boron chemistry, particularly within the last 20 years. We believe our survey is as complete as possible for the interval between the classical period and the cut-off date of March 31, 1961. It is probable that over 500 additional subject compounds have been added to the literature between March 1961 and April 1962, reflecting the rapid growth.

In most cases, needed information was lacking for a cited compound. Densities were found for only about 12% of the compounds, and relatively few melting points were noted. Definitive information on stability to air, water, and heat, explosiveness, toxicity, etc. were usually absent. Because of these deficiencies, much of the presented data and final selection is based on approximated densities and on judgements concerning various properties.

## (2) Calculation Methods

### a. Density

The lack of density data for most compounds necessitated development of calculation methods. Several methods were evaluated by comparing calculated densities against literature values for various compounds, i.e. from:

- 1) Summation of atomic volumes based on covalent radii (1,2)
- 2) The "rectilinear" molecular radius (1,2)
- 3) The Lutskill equation (3) for covalently bonded compounds
- 4) The Kalandiya equation (4) for inorganic salts of the type  $AnBmOn$ .
- 5) Equation of Huggins and Stevens (5,6,7) for glasses and minerals.

Methods (1), (2), and (5) were found inaccurate or unreliable for use on the subject compounds. Values calculated by the Lutskill equation were high by 3 to 23% and involved somewhat nebulous assumptions. The Kalandiya method was found most accurate (to within 4%) of those tried; however, this method only applies to simple inorganic salts and its use would require fairly elaborate programming.

An empirical estimation method for organics was used in obtaining densities for about 1300 compounds. Known densities for 428 organic compounds were listed on cards which were indexed by elemental formula. Within each card, densities were put in columns according to the presence of 0, 1, 2, etc. phenyl, cyclic or unsaturated radicals in the formula. Densities were then estimated for various compounds by locating their position in the empirical file and interpolating or extrapolating to values when necessary. Accuracy of density estimates was demonstrated to within  $\pm 3\%$  of actual values for those organic types covered in the listings.

Densities of all other undefined compounds (ca. 60% of total) were calculated by summation of atomic volumes for elements in the solid or free state (2,8) and using appropriate correction factors:

$$d = \frac{\text{molecular weight}}{\sum \text{atomic volumes}} \times F$$

The 9 factors employed (ranging from 1.08 to 2.21) were derived empirically from compounds with known densities. This method is considered reliable on the average to within  $\pm 10\%$  of actual densities. Greatest uncertainty exists for boron polymer densities so calculated, since known densities of boron polymers were not available for deriving the correction factors.

### (3) Computer Program

From input data and equations, the developed computer program provided descriptions, general properties and shielding activities for all compounds in the compilation. Density dependent properties were based on known densities if available, otherwise on estimated densities (for organics), and on calculated values when necessary.

### (4) Total Print Out

The total print out gives input and calculated data for all compounds compiled in the literature search. The computer printed the compounds according to a prescribed sequence similar to the formula index of Chemical Abstracts.

Organic compounds are listed first followed by inorganic compounds. (Unclassified compounds in Compilation A and B, and classified compounds in Part B, Compilation C.) The following information is concisely stated for each compound:

- 1 - Compound name with preferred IUPAC nomenclature used when possible
- 2 - Literature reference considered most important
- 3 - Compound type and physical state as known
- 4 - Nature of density value, i.e. from literature, estimated, or calculated
- 5 - Physical density value
- 6 - Compound number as processed to computer
- 7 - Property code numbers indicating as known:  
availability, toxicity, stability to air and water, explosiveness, stability in combination with resins, flammability, and thermal stability
- 8 - Melting point if known
- 9 - Formula

- 10 - Molecular weight
- 11 - Microscopic and macroscopic neutron removal cross sections
- 12 - Hydrogen density
- 13 - Microscopic and macroscopic gamma-ray energies resulting from thermal neutron capture.

#### (5) Screening

All unclassified boron compounds were screened for those having hydrogen density, macroscopic neutron removal cross sections and hydrogen density plus macroscopic neutron removal cross sections greater than 95% values of high density polyethylene, containing 6% boron. Of the 4485 compounds, 441 had high macroscopic neutron removal cross sections, 175 high hydrogen density and 129 had both high macroscopic neutron removal cross sections and high hydrogen density. In the high hydrogen density search 46 compounds were found with macroscopic neutron removal cross sections below the 95% value of high density polyethylene, containing 6% amorphous boron.

Unclassified compounds meeting the minimum requirements are mostly polymeric and include alkylaminoborane polymers and alkylphosphinoborane polymers (Table I). Such compounds are usually stable to air, water and heat and are high melting, generally above 165°F or 73.9°C. The boron trifluoride-dodecylamine adduct is hydrolytically stable and useful as a detergent, pesticide or for medicinal purposes. Other compound types meeting the minimum requirements are an alkoxyborane polymer and N-dialkylpiperidinium tetrahydroborates (or borohydrides). Alkyl substituents are most frequently methyl and/or ethyl groups.

Compounds with high macroscopic removal cross sections and hydrogen densities, but unsatisfactory physical properties, are represented by the following compound types (Table II):

- 1 - Boranes and polyboranes (with and without alkyl substituents) - generally unstable to air, water and heat, highly toxic and chemically reactive
- 2 - Ammonia, hydrazine and alkylamine adducts of borane or polyboranes (including alkyl-substituted types) - unstable to moist air or heat and often react explosively
- 3 - Alkylthio- and alkoxy-polyboranes - unstable to water and heat, usually liquid and toxic
- 4 - Certain alkylphosphinoborane polymers, particularly ethyl derivatives - liquids
- 5 - Quaternary (e.g. tetramethyl-, tetraethyl-) ammonium hydroborates and polyhydropolyborates - unstable to moist air and extremely flammable

**TABLE 1**  
**UNCLASSIFIED BORON COMPOUNDS TEST RESULTS**  
**EXPERIMENTAL PROCEDURE AND RESULTS**

TRIMETHYLAMINOTETRABORANE POLYMER  
JACS 79, 2120 ORGAN. SOLPOLCAL D 1.2216 NO 412.6 04000410 T -0.  
C 3 M 13 B 4 N 1  
MW 106.42 MI 20.38 MA 0.1409 MD 0.99 EM 16.23 GR 11.22

1,3-TRIMETHYLENE-P,PIPRIME-BIS(METHYLPHOSPHINOBORINE) POLYMER  
AD191, 1820 ORGAN. SOLPOLCAL D 1.4992 NO 491.4 04000410 T -0.  
C 5 M 16 B 2 P 2  
MW 199.77 MI 24.45 MA 0.1389 MD 9.02 EM 18.23 GR 10.29

3/4 COPOLYMER OF DIMETHYLPHOSPHINOBORINE/1,3-TRIMETHYLENE-P,PIPRIME  
BIS(METHYLPHOSPHINOBORINE)  
AD191, 1820 ORGAN. SOLPOLCAL D 1.4703 NO 424.6 04000410 T -0.  
C 20 M 80 B 11 P 1  
MW 860.73 MI 134.36 MA 0.1382 MD 9.09 EM 100.36 GR 10.33

1/1 COPOLYMER OF DIMETHYLPHOSPHINOBORINE/1,3-TRIMETHYLENE-P,PIPRIME  
BIS(METHYLPHOSPHINOBORINE)  
AD191, 1820 ORGAN. SOLPOLCAL D 1.4648 NO 424.4 04000410 T -0.  
C 7 M 24 B 3 P 1  
MW 233.85 MI 36.57 MA 0.1381 MD 9.06 EM 27.37 GR 10.33

3/2 COPOLYMER OF DIMETHYLPHOSPHINOBORINE/1,3-TRIMETHYLENE-P,PIPRIME  
BIS(METHYLPHOSPHINOBORINE)  
AD191, 1820 ORGAN. SOLPOLCAL D 1.3902 NO 424.8 04000410 T -0.  
C 14 M 40 B 5 P 3  
MW 426.52 MI 71.84 MA 0.1370 MD 9.34 EM 52.26 GR 9.96

DIMETHYLPHOSPHINOBORINE POLYMER  
WATR 97, 1260 ORGAN. SOLPOLCAL D 1.4031 NO 412.3 04040410 T 170.50  
C 2 M 8 B 1 P 1  
MW 73.88 MI 11.92 MA 0.1164 MD 9.15 EM 9.12 GR 10.43

DIMETHYLAMINOBIS(DIMETHYLPHOSPHINODIMETHYLBORINE) POLYMER  
AD278, 2500 ORGAN. SOLPOLCAL D 1.5244 NO 426.7 04000410 T 200.00  
C 6 M 23 B 3 N 1 P 2  
MW 203.87 MI 36.90 MA 0.1351 MD 9.01 EM 25.87 GR 10.13

TRIMETHYLSILYLPHOSPHINOBORINE POLYMER  
AD292, 0940 ORGAN. SOLPOLCAL D 1.4844 NO 427.5 04440411 T 90.00  
C 3 M 12 B 1 P 1  
MW 116.01 MI 17.44 MA 0.1390 MD 9.00 EM 12.85 GR 9.64

BORON TRIFLUORIDE-DODECYLAMINE  
CA 48, 13710 ORGAN. SOLIDEST D 1.3000 NO 120.6 04000444 T 87.00  
C 12 M 27 B 1 F 3 N 1  
MW 253.18 MI 47.03 MA 0.1318 MD 8.55 EM 22.70 GR 7.02

METHYLBORONIC POLYMER  
AD252, 0940 ORGAN. POLMERCAL D 1.1150 NO 427.4 04440441 T -0.  
C 1 M 6 B 1 O 1  
MW 44.88 MI 8.77 MA 0.1312 MD 8.98 EM 5.81 GR 8.70

BIS(METHYLENEAMINO)BOP .LI  
JACS 82, 4842 ORGAN. SOLIDEST D 0.9000 NO 60.5 04000441 T -0.  
C 2 M 14 B 2 N 2  
MW 87.77 MI 19.70 MA 0.1216 MD 8.65 EM 19.25 GR 9.41

POLYMERIC PHENYLDODECYLPHOSPHINODIMETHYLBORINE  
CA 54, 13400 ORGAN. POLMERCAL D 1.1653 NO 419.1 04000410 T -0.  
C 20 M 36 B 1 P 1  
MW 318.30 MI 54.90 MA 0.1202 MD 7.44 EM 24.96 GR 6.61

CYCLO COPOLYMER OF HEXAMETHYLENEPHOSPHINODIPROPYLBORINE AND HEXAMETHYLENEPHOSPHINODIPROPYLBORINE  
CA 54, 13400 ORGAN. POLMERCAL D 1.0991 NO 419.7 04000410 T -0.  
C 21 M 40 B 2 P 2  
MW 382.19 MI 67.61 MA 0.1171 MD 7.97 EM 40.52 GR 7.02

N-METHYL-N-ETHYLPIPERIDINIUM TETRAHYDROBORATE  
CA 51, 5844 ORGAN. SOLIDEST D 0.9000 NO 109.1 04444414 T -0.  
C 8 M 22 B 1 N 1  
MW 143.04 MI 30.52 MA 0.1156 MD 8.33 EM 18.74 GR 7.10

N,N-DIETHYLPIPERIDINIUM TETRAHYDROBORATE  
CA 51, 5844 ORGAN. SOLIDEST D 0.9000 NO 110.6 04444414 T -0.  
C 9 M 24 B 1 N 1  
MW 157.12 MI 33.33 MA 0.1150 MD 8.28 EM 20.23 GR 6.98

NORANE-TRIMETHYLAMINE  
GM 12, 2350 ORGAN. SOLIDEST D 0.8400 NO 64.4 04444410 T 94.00  
C 3 M 12 B 1 N 1  
MW 72.96 MI 16.47 MA 0.1142 MD 8.32 EM 11.32 GR 7.85

**TABLE 17**  
UNCLASSIFIED MONOMER COMPOUNDS FROM 1940-1949  
AND HYDROGEN DERIVATIVES BUT NOT UNCLASSIFIED PRECURSORS

<p><b>METHYLDORANE-AMMONIA</b> CA 13. 2390000. SOLIDEST D 0.9500 NO 54.9 0444411 T -0. C 1 H 8 B 1 N 1 M 44.90 MI 10.88 MA 0.1383 MD 10.19 EM 8.36 GR 10.68</p> <p><b>BENZO-N-METHYLAMINE</b> CA 13. 2390000. LIQUIDEST D 0.9500 NO 54.9 0414041 T -0. C 7 H 9 N 1 M 44.90 MI 10.85 MA 0.1383 MD 10.19 EM 8.36 GR 10.68</p> <p><b>ETHYLMETHYLPHOSPHINOBORANE POLYMER</b> BTR 97. 1260000. LIQUIDEST D 1.4190 NO 414.8 0444414 T -0. C 13 H 44 B 5 P 5 M 409.47 MI 88.03 MA 0.1378 MD 9.18 EM 48.97 GR 10.14</p> <p><b>ETHYLMETHYLPHOSPHINOBORANE ETHYLPHOSPHINOBORANE CYCLIC COPOLYMER</b> CA 54. 1260000. LIQUIDEST D 1.3921 NO 414.1 0444410 T -0. C 10 H 32 B 3 P 3 M 277.75 MI 47.00 MA 0.1378 MD 9.38 EM 33.29 GR 9.76</p> <p><b>ETHYLPHOSPHINODIMETHYLAMINE POLYMER</b> AD 152. 0280000. LIQUIDEST D 1.3825 NO 424.3 04000410 T -0. C 10 H 32 B 1 P 1 M 177.91 MI 16.73 MA 0.1375 MD 9.34 EM 10.60 GR 9.40</p> <p><b>ETHYLDICARBORANE ISOMER</b> CA 54. 1297000. LIQUIDEST D 1.1086 NO 261.5 0441441 T -0. C 2 H 18 B 10 M 150.37 MI 24.32 MA 0.1373 MD 8.43 EM 27.16 GR 12.71</p> <p><b>BORON TRIFLUORIDE-N-ETHYLPIPERIDINE</b> BTR 174. 1300000. UNKNOWEST D 1.9500 NO 94.7 0444444 T -0. C 7 H 15 N 1 F 3 N 1 M 161.02 MI 26.98 MA 0.1371 MD 7.74 EM 13.81 GR 7.12</p> <p><b>COPOLYMER OF ETHYLMETHYLPHOSPHINOBORANE/METHYLPHOSPHINOBORANE</b> BTR 57. 1260000. LIQUIDEST D 1.3888 NO 413.0 04000410 T -0. C 12 H 44 B 5 P 5 M 397.46 MI 65.72 MA 0.1369 MD 9.23 EM 48.95 GR 10.19</p> <p><b>BORON TRIFLUORIDE-TRIPROPYLAMINE</b> CA 51. 1170000. SOLIDEST D 1.4000 NO 110.0 0444444 T 227.90 C 9 H 21 B 1 F 3 N 1 M 211.09 MI 34.20 MA 0.1366 MD 8.39 EM 18.85 GR 7.39</p> <p><b>ETHYLMETHYLENEDIAMINE</b> CA 16. 0000000. UNKNOWEST D 1.0500 NO 55.6 0444444 T -0. C 4 H 10 N 2 M 59.92 MI 12.42 MA 0.1364 MD 9.50 EM 10.17 GR 10.73</p>	<p><b>BUTYLPHOSPHINOBORANE POLYMER</b> CA 49. 1097000. LIQUIDEST D 1.3255 NO 412.9 0444414 T -0. C 4 H 13 B 1 P 2 M 133.92 MI 19.07 MA 0.1363 MD 9.92 EM 14.84 GR 10.09</p> <p><b>BERYLLIUM-PENTAHYDROBorate(1-)</b> CA 49. 8790000. SOLIDEST D 1.0067 NO 230.1 0411414 T -0. H 5 B 2 O 1 M 35.69 MI 8.01 MA 0.1361 MD 8.49 EM 6.51 GR 11.07</p> <p><b>METHOXYDECARBORANE(14)</b> CA 54. 1083000. LIQUIDEST D 1.2501 NO 252.0 0411441 T -0. C 1 H 16 B 10 O 1 M 132.34 MI 27.50 MA 0.1359 MD 7.91 EM 25.67 GR 12.49</p> <p><b>METHYLMETHYLPHOSPHINOBORANE POLYMER</b> CA 52. 1164000. UNKNOWEST D 1.0719 NO 251.7 0444444 T -0. C 1 H 11 B 2 M 71.72 MI 15.06 MA 0.1356 MD 9.90 EM 12.87 GR 11.38</p> <p><b>METHYLPHOSPHINOBORANE POLYMER</b> AD 142. 0280000. LIQUIDEST D 1.4673 NO 424.2 04000410 T -0. C 1 H 10 B 1 P 1 M 94.85 MI 9.11 MA 0.1349 MD 8.86 EM 7.63 GR 11.27</p> <p><b>BORON TRIFLUORIDE-DIBUTYLAMINE</b> CA 52. 1083000. SOLIDEST D 1.4000 NO 103.9 0444444 T 259.00 C 8 H 19 B 1 F 3 N 1 M 197.07 MI 31.39 MA 0.1343 MD 8.13 EM 16.76 GR 7.17</p> <p><b>BORON TRIFLUORIDE-BUTYLDIMETHYLAMINE</b> CA 50. 1575000. UNKNOWEST D 1.4500 NO 69.9 0444444 T -0. C 6 H 15 B 1 F 3 N 1 M 164.01 MI 25.77 MA 0.1332 MD 7.75 EM 13.80 GR 7.13</p> <p><b>BORON TRIFLUORIDE-TRIETHYLAMINE</b> CA 13. 2390000. SOLIDEST D 1.4500 NO 81.7 0444444 T 29.50 C 6 H 15 B 1 F 3 N 1 M 169.01 MI 25.77 MA 0.1332 MD 7.75 EM 13.80 GR 7.13</p> <p><b>BORON TRIFLUORIDE-DIPROPYLAMINE</b> NACH. 1371000. SOLIDEST D 1.4500 NO 83.5 0444444 T -0. C 6 H 15 B 1 F 3 N 1 M 169.01 MI 25.77 MA 0.1332 MD 7.75 EM 13.80 GR 7.13</p> <p><b>METHYLMETHYLPHOSPHINOBORANE POLYMER</b> AD 53. 1040000. POLYMER D 1.6370 NO 438.1 0444444 T -0. C 1 H 5 B 1 P 1 M 54.93 MI 8.08 MA 0.1329 MD 8.23 EM 9.84 GR 9.80</p>
<p><b>METHYLMETHYLPHOSPHINOBORANE POLYMER</b> CA 49. 1097000. LIQUIDEST D 1.6370 NO 412.0 0441041 T 65.00 C 1 H 5 B 1 P 1 M 54.93 MI 8.08 MA 0.1329 MD 8.23 EM 9.84 GR 9.80</p> <p><b>1-METHYLPENTABORANE(9)</b> CA 53. 1760000. LIQUIDEST D 1.0193 NO 251.9 0411441 T -0. C 1 H 11 B 9 M 77.20 MI 16.66 MA 0.1325 MD 8.75 EM 15.05 GR 11.07</p> <p><b>ETHYLMETHYLPHOSPHINOBORANE TRIHYDROGEN TETRAHYDROBorate(1-)-ETHYL ETHER</b> CA 54. 1260000. UNKNOWEST D 1.1261 NO 280.4 0411441 T -0. C 4 H 13 B 1 N 1 O 1 M 122.92 MI 24.92 MA 0.1318 MD 9.14 EM 16.01 GR 8.61</p> <p><b>BORON TRIFLUORIDE-TRIBUTYLAMINE</b> NACH. 1351000. SOLIDEST D 1.3000 NO 126.7 0444444 T 55.00 C 12 H 27 B 1 F 3 N 1 M 253.14 MI 42.63 MA 0.1318 MD 8.35 EM 22.70 GR 7.02</p> <p><b>DECAHEDRAN-AMMONIA</b> CA 13. 2390000. SOLIDEST D 1.0927 NO 416.6 0444441 T -0. C 12 H 18 N 1 M 177.31 MI 27.77 MA 0.1312 MD 8.03 EM 27.47 GR 12.97</p> <p><b>DECAHEDRAN(11)</b> CA 53. 2397000. LIQUIDEST D 0.8806 NO 233.0 0411441 T -123.40 C 11 H 15 M 65.15 MI 14.85 MA 0.1290 MD 8.95 EM 15.03 GR 12.23</p> <p><b>DIETHYL-1,1-DIHYDROBorate(1-)-DIETHYL ETHER</b> CA 52. 1770000. SOLIDEST D 1.1192 NO 282.3 0411441 T -0. C 4 H 11 B 2 O 1 M 201.15 MI 38.47 MA 0.1289 MD 8.71 EM 35.28 GR 11.82</p> <p><b>4-OXY-1,1-DIETHYL ETHERATE SODIUM TRIDECANHYDROBorate(1-)</b> AD 277. 0000000. UNKNOWEST D 1.2221 NO 419.5 0444444 T -0. C 14 H 27 B 1 O 1 M 216.12 MI 38.14 MA 0.1285 MD 7.75 EM 36.75 GR 11.71</p> <p><b>DIETHYL-1,1-DIHYDROBorate(1-)-DIETHYL ETHER</b> CA 52. 1770000. SOLIDEST D 1.0833 NO 123.8 0444441 T -0. C 4 H 11 B 2 O 1 M 201.15 MI 38.47 MA 0.1285 MD 7.75 EM 36.75 GR 11.71</p> <p><b>POLYETHYLENE-PENTAHYDROBorate(1-)</b> CA 54. 1971000. UNKNOWEST D 0.7494 NO 410.1 0411444 T -0. C 2 H 4 B 1 M 22.87 MI 7.04 MA 0.1278 MD 9.07 EM 5.12 GR 9.30</p>	<p><b>N-METHYLMETHYLPHOSPHINOBORANE POLYMER</b> CA 13. 2390000. POLYMER D 1.0269 NO 412.1 0444444 T -0. C 1 H 6 B 1 N 1 M 42.09 MI 8.85 MA 0.1276 MD 8.65 EM 6.89 GR 9.94</p> <p><b>BERYLLIUM TETRAHYDROBorate(1-)</b> CA 51. 8480000. SOLIDEST D 0.7367 NO 230.2 0411441 T -0. H 5 B 2 O 1 M 38.72 MI 11.01 MA 0.1262 MD 9.17 EM 8.71 GR 9.99</p> <p><b>BORANE-ETHYLAMINE</b> CA 54. 1720000. LIQUIDEST D 0.9000 NO 179.4 0444441 T 17.00 C 2 H 10 B 1 N 1 M 58.93 MI 13.66 MA 0.1257 MD 9.20 EM 9.84 GR 9.05</p> <p><b>1,3,5-TRICYCLOHEXYL-2,4,6-TRIS(CYCLOHEXYLAMINO)BOMAZINE</b> CA 54. 6370000. SOLIDEST D 1.2000 NO 177.0 0444444 T 53.50 C 36 H 69 B 3 N 6 M 618.46 MI 107.44 MA 0.1256 MD 0.06 EM 61.87 GR 7.73</p> <p><b>TETRAETHYLAMMONIUM TETRAHYDROBorate(1-)</b> CA 50. 8140000. SOLIDEST D 0.9270 NO 9.3 0441414 T -0. C 8 H 24 B 1 N 4 M 145.11 MI 32.92 MA 0.1251 MD 9.24 EM 26.21 GR 7.78</p> <p><b>TRIS(1-METHYLMETHYLPHOSPHINOBORANE)</b> CA 50. 1867000. SOLIDEST D 1.2500 NO 175.2 0444444 T 114.00 C 30 H 47 B 3 N 6 M 546.25 MI 90.19 MA 0.1243 MD 7.86 EM 46.50 GR 6.41</p> <p><b>TRIMETHYL DECAHEDRAN</b> AD 237. 1760000. SOLIDEST D 1.0551 NO 445.0 04444410 T -0. C 3 H 20 B 10 M 164.39 MI 32.13 MA 0.1242 MD 7.73 EM 26.64 GR 11.07</p> <p><b>DIBORANE-METHYLMETHYLAMINE</b> NACH. 1494000. UNKNOWEST D 0.7000 NO 56.0 0444441 T -0. C 1 H 12 B 2 N 2 M 73.76 MI 16.89 MA 0.1241 MD 8.82 EM 13.76 GR 10.11</p> <p><b>ETHYLENEDIAMMONIUM BIS(TETRAHYDROBorate(1-))</b> CA 54. 1713000. UNKNOWEST D 0.7519 NO 261.2 0441441 T -0. C 2 H 20 B 2 N 4 M 158.84 MI 25.70 MA 0.1240 MD 9.65 EM 19.65 GR 7.58</p> <p><b>POLY-1,1-DIETHYL-1,1-DIPHOSPHINE-BOMANE ADDUCT</b> AD 277. 6430000. POLYMER D 1.4848 NO 447.7 044444 T -0. C 4 H 14 B 1 P 1 S 1 M 160.13 MI 22.06 MA 0.1232 MD 7.82 EM 15.12 GR 9.44</p>



**TABLE II (Cont'd.)**

<p>BORANE-ALUMINUM HYDROXIDE-3-ALUMINUM TRIHYDROXYDRATE CA 54, 238000000, SOLIDICAL D 0.1220 NO 392.2 04444444 T -0. C 2 H 10 B 11 1 Mn 604.20 MI 113.01 MA 0.1232 MD 8.61 EM 67.66 GR 7.31</p> <p>LITHIUM TRIMETHYLPHOSPHONATE CA 47, 374100000, SOLIDICAL D 0.9011 NO 265.9 04114111 T 00.00 C 3 H 10 B 11 1 Mn 64.87 MI 16.41 MA 0.1225 MD 8.50 EM 8.86 GR 7.33</p> <p>BORANE-POLYMERIZABLE DIETHYLPHOSPHONATE CA 52, 295000000, SOLIDEST D 0.9000 NO 60.8 04114111 T -0. C 2 H 14 B 2 N 2 Mn 67.74 MI 19.70 MA 0.1216 MD 8.65 EM 15.25 GR 9.41</p> <p>BISBORANE-1-ETHYLENE DIAMINE CA 56, 319500000, UNKNOWNEST D 0.9000 NO 60.7 44444411 T -0. C 2 H 14 B 2 N 2 Mn 67.74 MI 19.70 MA 0.1216 MD 8.65 EM 15.25 GR 9.41</p> <p>DIETHYLAMINO DIETHYLPHOSPHONATE-AMMONIA CA 54, 238000000, UNKNOWNEST D 0.9000 NO 60.6 04114111 T -0. C 4 H 18 B 2 N 2 Mn 67.74 MI 19.70 MA 0.1216 MD 8.65 EM 15.25 GR 9.41</p> <p>AMMONIUM DIMETHYLAMINO DIETHYLPHOSPHONATE CA 54, 238000000, UNKNOWNEST D 0.9000 NO 60.4 04114111 T -0. C 4 H 18 B 2 N 2 Mn 67.74 MI 19.70 MA 0.1216 MD 8.65 EM 15.25 GR 9.41</p> <p>DIETHYLAMINO DIETHYLPHOSPHONATE CA 54, 238000000, UNKNOWNEST D 0.9000 NO 60.3 04444411 T -0. C 2 H 14 B 2 N 2 Mn 67.74 MI 19.70 MA 0.1216 MD 8.65 EM 15.25 GR 9.41</p> <p>POLYMERIC DIETHYLPHOSPHONATE CA 54, 238000000, POLYMERICAL D 1.2940 NO 414.9 04444444 T -0. C 14 H 24 B 1 P 1 Mn 236.14 MI 37.64 MA 0.1214 MD 7.74 EM 21.05 GR 6.79</p> <p>BORANE-CARBOXYLIC ACID-AMMONIA CA 54, 238000000, UNKNOWNEST D 1.0000 NO 59.7 04444444 T -0. C 1 H 4 B 1 N 2 Mn 75.92 MI 13.91 MA 0.1214 MD 7.85 EM 10.17 GR 8.88</p> <p>BORANE HYDROLYSIS-AMMONIA CA 54, 238000000, SOLIDICAL D 0.8919 NO 411.9 04111111 T -0. C 2 H 14 B 1 N 1 Mn 24.87 MI 7.14 MA 0.1210 MD 8.59 EM 6.14 GR 10.55</p>	<p>LITHIUM DIMETHYLPHOSPHONATE-1-1 AD133, 238000000, SOLIDICAL D 0.8628 NO 444.0 04414114 T -0. C 2 H 10 B 11 1 Mn 49.89 MI 16.61 MA 0.1209 MD 8.34 EM 7.37 GR 7.69</p> <p>TRIMETHYLPHOSPHONATE-AMMONIA CA 54, 238000000, SOLIDICAL D 0.9403 NO 266.0 04044444 T -0. C 3 H 10 B 1 N 1 Mn 70.94 MI 14.47 MA 0.1204 MD 8.32 EM 9.86 GR 8.20</p> <p>MAGNESIUM TETRAHYDROBORATE-1-1-DIETHYL ETHER CA 53, 255400000, UNKNOWNEST D 1.0069 NO 280.8 04414111 T -0. C 4 H 18 B 2 N 1 Mn 128.15 MI 25.39 MA 0.1202 MD 8.52 EM 16.59 GR 7.85</p> <p>1-ETHYLPHOSPHONATE-1-1 CA 53, 255400000, SOLIDICAL D 0.9344 NO 280.9 04414114 T -0. C 2 H 10 B 1 N 1 Mn 71.23 MI 14.47 MA 0.1201 MD 8.02 EM 16.53 GR 10.20</p> <p>BUTYLBORANE POLYMER CA 47, 743600000, SOLIDICAL D 1.0235 NO 412.7 04114111 T -0. C 4 H 10 B 1 Mn 67.94 MI 13.21 MA 0.1199 MD 8.17 EM 8.08 GR 7.31</p> <p>1-(HEXYL)-2-METHYLPHOSPHONATE-1-1 CA 54, 238000000, POLYMERICAL D 1.0084 NO 413.4 04444411 T -0. C 6 H 18 B 1 Mn 95.99 MI 18.83 MA 0.1191 MD 8.23 EM 11.03 GR 6.78</p> <p>POLYMERIC DIARYLPHOSPHONATE CA 54, 238000000, SOLIDICAL D 1.1812 NO 430.9 04444444 T -0. C 10 H 20 B 1 P 1 Mn 182.06 MI 30.40 MA 0.1108 MD 7.82 EM 18.09 GR 7.05</p> <p>DECAMONANE-1-TRIAKISAMMONIA AD155, 452100000, UNKNOWNEST D 0.9393 NO 416.7 04444444 T -0. C 25 H 10 N 4 Mn 170.44 MI 34.78 MA 0.1108 MD 7.72 EM 37.31 GR 11.08</p> <p>BORANE-1-ETHYLENE DIAMINE CA 54, 238000000, UNKNOWNEST D 1.0000 NO 60.0 04444444 T -0. C 2 H 11 B 1 N 2 Mn 73.94 MI 15.73 MA 0.1281 MD 8.96 EM 11.65 GR 9.49</p> <p>BORANE-DIETHYLAMINE CA 54, 238000000, UNKNOWNEST D 0.8500 NO 59.2 04414111 T 11.00 C 2 H 11 B 1 N 1 Mn 70.94 MI 13.56 MA 0.1187 MD 8.69 EM 9.84 GR 8.55</p>
<p>METHYLBORANE-METHYLAMINE CA 54, 238000000, UNKNOWNEST D 0.8500 NO 59.1 04444411 T -0. C 2 H 10 B 1 N 1 Mn 58.93 MI 13.66 MA 0.1187 MD 8.69 EM 9.04 GR 8.55</p> <p>POLYMERIC DIETHYLPHOSPHONATE CA 54, 238000000, POLYMERICAL D 1.1485 NO 414.5 04444444 T -0. C 12 H 24 B 1 P 1 Mn 210.12 MI 36.02 MA 0.1184 MD 7.90 EM 21.02 GR 6.92</p> <p>LITHIUM METHYLTRIPHOSPHONATE-1-1 CA 53, 118400000, SOLIDICAL D 0.8020 NO 244.4 04014111 T -0. C 1 H 6 B 1 Mn 35.82 MI 8.79 MA 0.1186 MD 8.09 EM 5.89 GR 7.94</p> <p>BORANE-DIETHYLAMINE CA 54, 238000000, UNKNOWNEST D 0.9000 NO 174.4 04444444 T 37.00 C 2 H 10 B 1 N 1 Mn 57.92 MI 12.66 MA 0.1185 MD 8.42 EM 9.11 GR 8.52</p> <p>CALCIUM BORATE-BISDIETHYL ETHER NACM, 013310000, UNKNOWNEST D 1.0717 NO 428.8 04114111 T -0. C 4 H 20 B 2 CA 1 D 2 Mn 218.03 MI 39.79 MA 0.1184 MD 8.29 EM 27.45 GR 8.13</p> <p>BISLITHIUM TETRAHYDROBORATE-1-DIETHYL ETHER CA 52, 135100000, UNKNOWNEST D 0.8834 NO 280.7 04114111 T -0. C 4 H 18 B 2 Mn 117.71 MI 26.19 MA 0.1184 MD 8.14 EM 16.21 GR 7.33</p> <p>DIMETHYLAMINO BORANE-ALUMINUM TRIHYDRIDE NACM, 26, 284000000, SOLIDICAL D 1.0684 NO 280.3 04414111 T -0. C 2 H 10 B 1 Al 1 Mn 86.92 MI 15.77 MA 0.1102 MD 8.16 EM 12.57 GR 9.31</p> <p>SODIUM OCTAHYDROBORATE-1-1-DIETHYL ETHER CA 52, 107800000, SOLIDICAL D 1.0743 NO 281.4 04114111 T -0. C 4 H 18 B 3 Na 1 Mn 137.84 MI 26.35 MA 0.1181 MD 8.07 EM 21.34 GR 9.57</p> <p>MAGNESIUM TETRAHYDROBORATE-1-1-DIETHYL ETHER CA 53, 255400000, UNKNOWNEST D 0.7905 NO 261.1 04144411 T -0. C 2 H 14 B 2 N 1 Mn 100.39 MI 19.77 MA 0.1178 MD 8.35 EM 13.62 GR 8.12</p> <p>DIETHYLBORANE POLYMER CA 47, 743600000, POLYMERICAL D 0.9600 NO 413.8 04114111 T -0. C 4 H 10 B 1 Mn 125.05 MI 25.49 MA 0.1177 MD 8.32 EM 14.73 GR 6.81</p>	<p>MAGNESIUM TETRAHYDROBORATE-1-1 CA 54, 238000000, SOLIDICAL D 0.7456 NO 274.1 04114111 T 180.00 C 4 H 18 B 2 Mn 54.07 MI 11.16 MA 0.1177 MD 8.43 EM 9.19 GR 9.69</p> <p>PENTABORANE-1-1-DIAMMONIA CA 54, 238000000, SOLIDICAL D 0.8622 NO 233.3 </p>

# TABLE II (Cont'd.)

POLYMERIC TETRAHYDROBORATE-DIMETHYLAMINE  
CA 34, 1840 ORGAN. SOLIDICAL D 1.1737 NO 413.5 04444444 T -0.  
C 4 H 14 B 1 N 1  
M 127.37 MI 21.15 MA 0.1169 MD 7.73 EM 13.59 GR 7.50

LITHIUM PERFLUOROPOLYMER  
CA 34, 997 ORGAN. SOLIDICAL D 0.7646 NO 250.4 04114411 T -0.  
C 1 H 1 B 10 F 1  
M 38.90 MI 9.85 MA 0.1166 MD 8.29 EM 6.61 GR 7.02

LITHIUM TETRAHYDROBORATE-DIMETHYLAMINE  
CA 31, 121 ORGAN. UNKNOWICAL D 0.8731 NO 299.7 04144441 T -0.  
C 6 H 22 B 1 LI 1 N 2  
M 140.02 MI 30.98 MA 0.1164 MD 8.26 EM 19.87 GR 7.46

LITHIUM TETRAHYDROBORATE-DIMETHYL ETHER  
CA 52, 690 ORGAN. SOLIDICAL D 0.8992 NO 250.1 04114411 T -0.  
C 2 H 10 B 1 LI 1 C 1  
M 67.06 MI 14.59 MA 0.1164 MD 7.98 EM 8.84 GR 7.04

TRIMETHYLENE DIAMINOTETRAHYDROBORATE  
CA 25, 888 ORGAN. UNKNOWICAL D 0.8928 NO 231.3 04444411 T -0.  
C 12 H 4 N 2  
M 33.34 MI 18.02 MA 0.1162 MD 7.74 EM 16.33 GR 10.66

ALUMINUM TETRAHYDROBORATE-AMMONIA  
CA 34, 995 ORGAN. LIQUIDICAL D 0.8414 NO 187.0 04114411 T -0.  
C 12 H 1 B 3 N 1  
M 86.57 MI 20.29 MA 0.1161 MD 8.58 EM 18.26 GR 10.45

BORANE-AMMONIA  
CA 50, 413 ORGAN. SOLIDICAL D 0.7400 NO 9.4 04114411 T 40.00  
C 6 H 14 B 1 N 1  
M 50.08 MI 8.04 MA 0.1161 MD 8.66 EM 6.87 GR 9.92

LITHIUM TETRAHYDROBORATE-TRIMETHYLAMINE  
CA 51, 121 ORGAN. UNKNOWICAL D 0.8432 NO 248.7 04114411 T -0.  
C 9 H 13 B 1 LI 1 N 1  
M 80.40 MI 18.48 MA 0.1160 MD 8.16 EM 12.14 GR 7.62

DIMETHYLENE TETRAHYDROBORATE-DIMETHYL ETHER  
CA 52, 132 ORGAN. UNKNOWICAL D 0.8377 NO 261.0 04144411 T -0.  
C 2 H 14 B 2 LI 1 C 1  
M 89.02 MI 20.57 MA 0.1158 MD 7.88 EM 13.25 GR 7.45

BORANE-TRIMETHYLAMINE  
CA 54, 122 ORGAN. SOLIDEST D 0.8500 NO 179.7 04444411 T 65.00  
C 9 H 14 B 1 N 1  
M 72.96 MI 16.47 MA 0.1156 MD 8.42 EM 11.32 GR 7.95

DIMETHYLBORANE-DIMETHYLAMINE  
CA 13, 235 ORGAN. UNKNOWEST D 0.8500 NO 73.1 04444411 T -0.  
C 4 H 14 B 1 N 1  
M 86.98 MI 17.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

TRIMETHYLBORANE-TRIMETHYLAMINE  
CA 13, 235 ORGAN. LIQUIDEST D 0.8500 NO 73.0 04444411 T 1.00  
C 4 H 14 B 1 N 1  
M 86.98 MI 17.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

BORANE-N,N-DIMETHYLETHYLAMINE  
CA 53, 924 ORGAN. LIQUIDEST D 0.8500 NO 72.9 04444414 T 17.70  
C 4 H 14 B 1 N 1  
M 86.98 MI 17.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

LITHIUM ETHYLTRIMETHYLBORATE  
CA 20, 489 ORGAN. UNKNOWICAL D 0.8615 NO 284.2 04414444 T -0.  
C 5 H 14 B 1 LI 1  
M 91.93 MI 20.03 MA 0.1131 MD 7.90 EM 11.82 GR 8.67

DIMETHYLAMINOBORANE-TRIMETHYLAMINE  
CA 13, 235 ORGAN. UNKNOWEST D 0.8500 NO 78.7 04114441 T -0.  
C 5 H 17 B 1 N 2  
M 116.03 MI 24.16 MA 0.1129 MD 7.94 EM 16.11 GR 7.52

DIMETHYLALUMINUM TETRAHYDROBORATE  
CA 13, 235 ORGAN. LIQUIDICAL D 0.9668 NO 254.9 04114411 T -0.  
C 2 H 10 AL 1 H 1  
M 71.90 MI 13.40 MA 0.1126 MD 8.10 EM 10.76 GR 8.71

TRIMETHYLENE-DIMETHYLAMINOBORATE  
CA 13, 235 ORGAN. UNKNOWICAL D 0.8312 NO 417.8 04444444 T -0.  
C 2 H 12 B 3 N 1  
M 109.27 MI 24.54 MA 0.1124 MD 7.79 EM 20.34 GR 9.41

LITHIUM TETRAHYDROBORATE  
CA 20, 489 ORGAN. SOLIDICAL D 0.8640 NO 276.4 04414444 T -0.  
C 4 H 12 B 1 LI 1  
M 77.90 MI 17.22 MA 0.1124 MD 7.83 EM 10.34 GR 6.75

BORANE-DIMETHYL ETHER  
CA 48, 1207 ORGAN. SOLIDEST D 0.9000 NO 72.5 04444444 T -0.  
C 4 H 13 B 1 O 1  
M 87.97 MI 18.20 MA 0.1122 MD 8.01 EM 11.00 GR 6.78

DIBORANE-PHOSPHINE-AMMONIA  
CA 34, 1609 ORGAN. SOLIDICAL D 0.8965 NO 225.4 01144411 T -0.  
C 12 H 2 P 1  
M 78.72 MI 16.34 MA 0.1121 MD 8.23 EM 14.49 GR 9.94

10  
SODIUM TRIMETHYLHYDROBORATE  
NACP 22342 ORGAN. SOLIDICAL D 1.0484 NO 266.1 04444444 T -0.  
C 3 H 10 B 1 Na  
M 79.92 MI 14.61 MA 0.1154 MD 7.90 EM 12.67 GR 10.01

TRISODIUM TETRAHYDROBORATE  
CA 54, 9765 ORGAN. UNKNOWICAL D 1.0510 NO 388.4 04444444 T -0.  
C 24 H 60 B 3 Na 3  
M 474.13 MI 86.34 MA 0.1153 MD 8.01 EM 54.06 GR 7.22

CALCIUM DIMETHYLHYDROBORATE(1)-AMMONIA  
AD123, 230 ORGAN. SOLIDICAL D 1.0159 NO 445.6 04444411 T -0.  
C 4 H 14 B 2 CA 1 N 1  
M 142.92 MI 26.03 MA 0.1149 MD 8.13 EM 21.84 GR 9.36

MAGNESIUM PENTAHYDROBORATE(12-1)  
CA 53, 11892 ORGAN. SOLIDICAL D 1.0639 NO 217.8 04114411 T -0.  
M 40.10 MI 7.19 MA 0.1147 MD 7.97 EM 9.54 GR 8.92

DIMETHYLBORANE-METHYLAMINE  
CA 13, 235 ORGAN. UNKNOWEST D 0.8400 NO 64.3 04444411 T -0.  
C 3 H 12 B 1 N 1  
M 72.96 MI 16.47 MA 0.1142 MD 8.32 EM 11.32 GR 7.85

METHYLBORANE-DIMETHYLAMINE  
CA 13, 235 ORGAN. UNKNOWEST D 0.8400 NO 64.3 04444411 T -0.  
C 3 H 12 B 1 N 1  
M 72.96 MI 16.47 MA 0.1142 MD 8.32 EM 11.32 GR 7.85

BORANE-PROPYLAMINE  
PR 1,1894 ORGAN. SOLIDEST D 0.8400 NO 64.2 04444411 T 45.00  
C 3 H 12 B 1 N 1  
M 72.96 MI 16.47 MA 0.1142 MD 8.32 EM 11.32 GR 7.85

TETRABORANE(101)-TRIAMMONIA  
AD118, 932 ORGAN. SOLIDICAL D 0.7523 NO 416.2 04444411 T -0.  
C 16 H 4 N 2  
M 87.42 MI 22.02 MA 0.1141 MD 8.29 EM 19.47 GR 10.09

TRIMETHYLBORANE-METHYLAMINE  
CA 13, 235 ORGAN. SOLIDEST D 0.8500 NO 73.3 04444411 T 27.00  
C 4 H 14 B 1 N 1  
M 86.98 MI 17.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

BORANE-DIETHYLAMINE  
CA 13, 235 ORGAN. SOLIDEST D 0.8500 NO 73.2 04444411 T -0.  
C 4 H 14 B 1 N 1  
M 86.98 MI 17.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

11  
TRIMETHYLBORANE-DIMETHYLSULFIDE  
PR 1,1106 ORGAN. LIQUIDICAL D 1.0301 NO 428.6 04444444 T -42.00  
C 5 H 15 B 1 S 1  
M 119.05 MI 21.32 MA 0.1120 MD 7.88 EM 13.24 GR 6.96

BIS(BORANE-PKINE)-DIMETHYLIDIBORANE-HYDRAZINE  
NACP 47416 ORGAN. LIQUIDEST D 0.8500 NO 261.1 04444444 T 11.00  
C 4 H 14 B 2 N 2  
M 119.04 MI 25.32 MA 0.1119 MD 7.96 EM 18.21 GR 8.05

METHYLAMINODIBORANE-TRIMETHYLAMINE  
NACP 47416 ORGAN. SOLIDEST D 0.8500 NO 261.0 04444444 T -0.  
C 4 H 14 B 2 N 2  
M 119.04 MI 25.32 MA 0.1119 MD 7.96 EM 18.21 GR 8.05

6 - Lower alkylamine adducts of boron trifluoride  
(unstable to water or low melting)

7 - Metal (Li, Na, K, Be, Mg, Ca and Al) hydroborates,  
borohydrides, or polyhydropolyborates (including  
etherate derivatives) - unstable to moist air,  
frequently react explosively with air and water,  
thermally unstable and are highly flammable.

(6) Compounds Selected on the Basis of Optimum Shielding  
Properties

The seven compounds selected from the unclassified  
listing include methylaminoborane and methylphosphinoborane  
polymers and a boron trifluoride-amine adduct (Table III).  
Formulas in the order listed are:

- 1 -  $\left[ (\text{CH}_3)_3\text{N}(\text{BH})_4 \right]_x$
- 2 -  $\left[ \text{H}_2\text{B}(\text{CH}_3)\text{P}(\text{CH}_2)_3\text{P}(\text{CH}_3)\text{BH}_2 \right]_x$
- 3 -  $\left\{ \left[ (\text{CH}_3)_2\text{PBH}_2 \right]_3 - \left[ \text{H}_2\text{B}(\text{CH}_3)\text{P}(\text{CH}_2)_3\text{P}(\text{CH}_3)\text{BH}_2 \right]_4 \right\}_x$
- 4 -  $\left[ (\text{CH}_3)_2\text{PBH}_2 - \text{H}_2\text{B}(\text{CH}_3)\text{P}(\text{CH}_2)_3\text{P}(\text{CH}_3)\text{BH}_2 \right]_x$
- 5 -  $\left\{ \left[ (\text{CH}_3)_2\text{PBH}_2 \right]_3 - \left[ \text{H}_2\text{B}(\text{CH}_3)\text{P}(\text{CH}_2)_3\text{P}(\text{CH}_3)\text{PH}_2 \right]_2 \right\}_x$
- 6 -  $\left[ (\text{CH}_3)_2\text{PBH}_2 \right]_x$
- 7 -  $\text{CH}_3(\text{CH}_2)_{11}\text{NH}_2 \cdot \text{BF}_3$

These compounds have been prepared in laboratory quantities, hence are available. They are stable to air, water and elevated temperature (of 200°F for the polymers and up to 187°F for the  $\text{BF}_3$ -amine adduct). They are non-explosive, and should be compatible with resinous matrices or binding materials. Their high macroscopic removal cross sections ( $0.1318 \text{ cm}^{-1}$  to  $0.1409 \text{ cm}^{-1}$ ) and hydrogen densities ( $8.35$  to  $9.38 \times 10^{22}$  atoms/cc) indicate greater shielding effectiveness would result from their use than from high density polyethylene with 6% boron. The effectiveness of these compounds should be confirmed by experimental density measurements; since, with no values evident in the literature, calculated densities were used in computing shielding properties.

In addition to the seven compounds selected above, practical neutron shields may also be developed from mixtures of other boron compounds whose combinations would give significant hydrogen densities and macroscopic neutron removal cross sections. Two such mixtures explored were high density polyethylene containing boron nitride (cubic) and ammonium borate trihydrate in 3.42 vol % (equivalent to the boron vol % of high density polyethylene containing 6 wt % boron). Values for these combinations and components are summarized.

TABLE III

COMPOUNDS FROM OPEN LITERATURE SELECTED ON  
BASIS OF OPTIMUM CRITERIA

TRIMETHYLAMINOTETRABORINE POLYMER

JACS 79.2129 ORGAN.SOLPOLCAL D 1.2216 NO 412.6 04000410 T -O.  
C 3 H 13 B 4 N 1  
MW 106.42 MI 20.38 MA 0.1409 HD 8.99 EM 16.23 GR 11.22

1,3-TRIMETHYLENE-P,P(PRIME)-BIS(METHYLPHOSPHINOBORINE) POLYMER

AD 151.182 ORGAN.SOLPOLCAL D 1.4950 NO 451.4 04000410 T -O.  
C 5 H 16 B 2 P 2  
MW 159.77 MI 24.65 MA 0.1389 HD 9.02 EM 18.25 GR 10.29

3/4 COPOLYMER OF DIMETHYLPHOSPHINOBORINE/1,3-TRIMETHYLENE-  
P,P(PRIME)-BIS(METHYLPHOSPHINOBORINE)

AD 151.182 ORGAN.SOLPOLCAL D 1.4720 NO 424.6 04000410 T -O.  
C 26 H 88 B 11 P 11  
MW 860.73 MI 134.36 MA 0.1382 HD 9.05 EM 100.36 GR 10.33

1/1 COPOLYMER OF DIMETHYLPHOSPHINOBORINE/1,3-TRIMETHYLENE-  
P,P(PRIME)-BIS(METHYLPHOSPHINOBORINE)

AD 151.182 ORGAN.SOLPOLCAL D 1.4630 NO 424.4 04000410 T -O.  
C 7 H 24 B 3 P 3  
MW 233.65 MI 36.57 MA 0.1381 HD 9.06 EM 27.37 GR 10.33

3/2 COPOLYMER OF DIMETHYLPHOSPHINOBORINE/1,3-TRIMETHYLENE-  
P,P(PRIME)-BIS(METHYLPHOSPHINOBORINE)

AD 151.182 ORGAN.SOLPOLCAL D 1.3570 NO 424.8 04000410 T -O.  
C 14 H 49 B 5 P 5  
MW 426.52 MI 71.84 MA 0.1370 HD 9.34 EM 52.26 GR 9.96

DIMETHYLPHOSPHINOBORINE POLYMER

WATR 57.126 ORGAN.SOLPOLCAL D 1.4031 NO 412.3 04040410 T 170.5  
C 2 H 8 B 1 P 1  
MW 73.88 MI 11.92 MA 0.1364 HD 9.15 EM 9.12 GR 10.43

BORON TRIFLUORIDE-DODECYLAMINE

CA 48.13710 ORGAN.SOLIDEEST D 1.3000 NO 126.6 04000444 T 87.  
C 12 H 27 B 1 F 3 N 1  
MW 253.18 MI 42.63 MA 0.1318 HD 8.35 EM 22.70 GR 7.02

Material	Known Density	Hydrogen Density $\text{cm}^{-3} \times 10^{-22}$	Macroscopic Removal Cross Section $\text{cm}^{-1}$
Polyethylene	0.96	8.26	0.11606
Polyethylene + 6 wt % boron		7.96	0.11507
Boron nitride (cubic)	3.45	0	0.1707
Polyethylene + 3.42 vol % boron nitride		7.98	0.117
Ammonium borate trihydrate	2.6	7.54	0.1773
Polyethylene + 3.42 vol % ammonium borate trihydrate		8.23	0.11827

Obviously many combinations are possible and can be explored. Important at this stage is the definition of the relative merit of hydrogen density and macroscopic neutron removal cross section for measuring the effectiveness of neutron shielding. In addition other parameters for measuring this effectiveness may be used such as the macroscopic neutron slowing down power. Needed for a thorough analysis of this compiled data is a method for determining a figure of merit for neutron shielding. When such a method is devised, its application to the present mass of data could prove fruitful to obtaining optimum neutron shields.

#### (7) Cost Estimates

Rough cost estimates, made on those ten boron compounds best meeting optimum neutron shielding properties, are summarized in Table IV. As shown these costs, made for 50 and 500 lb. lots and production rates of 2 and 4 million lbs./yr., indicate that the organoboron compounds are quite expensive.

The cheapest material, an adduct of boron trifluoride and dodecylamine, showed a cost of \$27/lb. for 50 lb. lots and \$1.02/lb. at a production rate of 4,000,000 lbs./yr. For all other compounds, estimated costs at the 4,000,000 lb. level ranged from \$5.06 to \$65/lb. Only two of these were below \$22/lb., a classified compound No. 5376 and trimethylenetetra-borine polymer which were \$5.06 and \$6.25 respectively. An additional five, all phosphorus-boron polymers ranged from \$22.10 to \$22.50/lb. and the remaining 2 ranged from \$47 to \$65/lb.

The chief reason for these high costs were due to the expensive boron hydrides and other materials. In 50 to 500 lb. quantities, boron hydrides were very high priced: diborane \$85/lb.; pentaborane \$250/lb.; and decaborane \$295/lb. However, in 2 and  $4 \times 10^6$  lb. quantities they ranged from \$2.00 to \$6/lb. In spite of the much lower figures for the million lb. levels, raw materials cost remained the chief factor at the highest production rates estimated. As shown in Table IV at the

TABLE IV

ESTIMATED MANUFACTURING COSTS OF SELECTED  
BORON SHIELDING MATERIALS

Compound		\$ /lb. at:			
		50 lb.	500 lb.	2,000,000 lb./yr.	4,000,000 lb./yr.
5561 (Part B)	Raw Matl.	642	642	45	45
	Conv.	800	292	3	2
	Total	1442	934	48	47
5493 (Part B)	Raw Matl.	802	802	62	62
	Conv.	662	400	4	3
	Total	1464	1202	66	65
1/1 Copolymer of dimethyl- phosphinoborine/1,3-tri- methylene-P,P'-bis(methyl- phosphinoborine)	Raw Matl.	56	28	17.1	17.1
	Conv.	3283	793	7	5.0
	Total	3339	821	24.1	22.1
3/2 Copolymer of dimethyl- phosphinoborine/1,3-tri- methylene-P,P'-bis(methyl- phosphinoborine)	Raw Matl.	56	28	17.3	17.3
	Conv.	3280	794	7	5
	Total	3336	822	24.3	22.3
3/4 Copolymer of dimethyl- phosphinoborine/1,3-tri- methylene-P,P'-bis(methyl- phosphinoborine)	Raw Matl.	56	28	17.5	17.5
	Conv.	3280	680	7	5
	Total	3336	708	24.5	22.5
1,3-Trimethylene-P,P'-bis- (methylphosphinoborine)	Raw Matl.	62	31	17.4	17.4
	Conv.	1950	795	7	5
	Total	2012	826	24.4	22.4
5376 (Part B)	Raw Matl.	255	255	5.72	4.86
	Conv.	90	45	0.28	0.20
	Total	345	300	6.00	5.06
Trimethylaminotetraborine polymer	Raw Matl.	202	202	5.61	4.81
	Conv.	605	302	1.74	1.44
	Total	807	504	7.35	6.25
Dimethylphosphinoborine polymer	Raw Matl.	76	74.5	17.40	17.40
	Conv.	1330	666	7.00	5.00
	Total	1406	740.50	24.40	22.40
Boron trifluoride- dodecylamine adduct	Raw Matl.	1.26	1.26	0.92	0.92
	Conv.	26.00	4.20	0.14	0.10
	Total	27.26	5.46	1.06	1.02

4,000,000 lb. level raw materials cost for compounds requiring the boron hydrides as intermediates ranged from \$4.81 to \$62.00/lb. in contrast to conversion costs of \$0.20 to \$5.00/lb. The high materials cost, due to presently expensive materials other than boron hydrides, could be substantially reduced or cheaper substitutes used.

Initially boron hydride quotations from a major supplier failed to give price reductions for million pound quantities. Therefore, cost estimates for the materials in Table IV were prepared based on the boron hydride costs quoted above for 50 to 500 lb. quantities. However, with the assistance of Picatinny Arsenal personnel, volume price reductions were quoted and the Table IV cost estimates were revised accordingly.

At the low production rates of 50 and 500 lb. lots costs are unusually large (\$345 to \$3339/lb.) for those materials derived from the boron hydrides. At these levels both raw material costs and conversion costs are large. The latter is due to the specialized handling required for these dangerous and hazardous materials.

These manufacturing cost estimates (Table IV) were prepared by conventional cost estimating techniques by an experienced cost estimator. They were first round approximations and do not represent exact production figures. Such refined estimates are beyond the scope of this problem in its present stage of development. In all cases it was assumed that reported experimental procedures represented operable processes.

#### (8) Conceptual Boron Compounds

Various analogous organic and organoboron compounds were studied to devise an empirical method for predicting increased hydrogen densities in conceptual organoboron materials. Homologous series of known densities were compiled, and the hydrogen densities were calculated. From this study the following trends favor increased hydrogen density:

- 1 - Higher alkyl groups.
- 2 - Substitution of aromatic and unsaturated groups with saturated ones.
- 3 - Cyclohexyl, cycloheptyl and cyclooctyl groups superior to hexyl and lower alkyl groups.
- 4 - Butoxy and hydroxybutyl groups and higher analogs are as effective as n-pentyl.
- 5 - Long chain monoalkylamino and cyclohexylamino groups are superior to short chain groups such as methylamino and ethylamino.

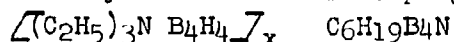
- 6 - Similarly long chain dialkylamino groups are superior to their lower analogs. Also dialkylamino groups are more effective than monoalkylamino.
- 7 - Piperidino and alkylpiperidino groups are better than dialkylamino groups below dibutyl.
- 8 - Nitriles must have chain lengths of at least 12 carbons where they are equivalent to a heptyl group.
- 9 - Dibutyl ether and higher ethers are equivalent to hexyl groups.
- 10 - Lauric and higher saturated acids may replace any alkyl below C<sub>6</sub> but not above C<sub>8</sub>.

With these simple rules, homologues of any of the known boron compounds listed can be devised which would probably have higher hydrogen densities and macroscopic neutron removal cross sections than their smaller analogs.

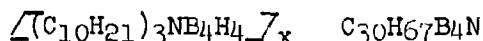
These rules were applied to the compounds, meeting minimum requirements for neutron shielding, listed in Table I. In all cases where alkyl groups were used only two straight chain alkyl groups were suggested, the next higher one and decyl. Obviously groups larger than decyl and those between decyl and the suggested group could also be used.

1 - Trialkylaminotetraborine polymers

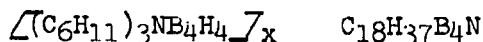
a) Triethylaminotetraborine polymer



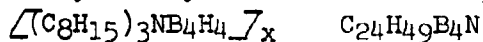
b) Tridecylaminotetraborine polymer



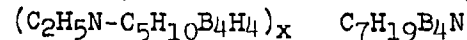
Tricyclohexylaminotetraborine polymer



Tricyclooctylaminotetraborine polymer

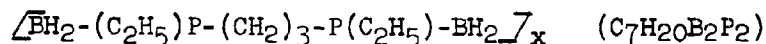


N-Ethylpiperidinetetraborine polymer



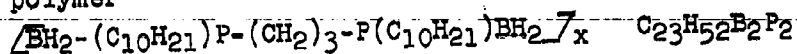
2 - 1,X-Polyalkylene-P,P'-bis(alkylphosphinoborine) polymer

a) 1,3-Trimethylene-P,P'-bis(ethylphosphinoborine) polymer

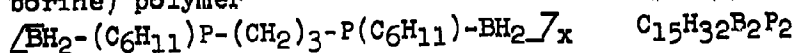




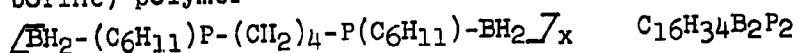
b) 1,3-Trimethylene-P, P'-bis(decylphosphinoborine) polymer



c) 1,3-Trimethylene-P, P'-bis(cyclohexylphosphinoborine) polymer

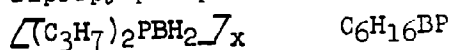


d) 1,4-Tetramethylene-P, P'-bis(cyclohexylphosphinoborine) polymer

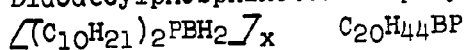


### 3 - Dialkylphosphinoborine polymers

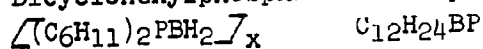
a) Dipropylphosphinoborine polymer



b) Didodecylphosphinoborine polymer



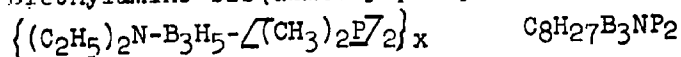
c) Dicyclohexylphosphinoborine polymer



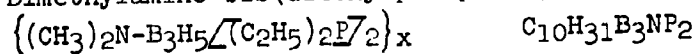
### 4 - Various copolymers of 2 and 3

### 5 - Dialkylaminobis(dialkylphosphino)triborine polymers

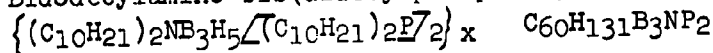
a) Diethylamino bis(dimethylphosphino)triborine polymer



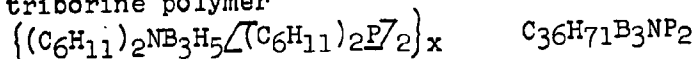
b) Dimethylamino bis(diethylphosphino)triborine polymer



c) Didodecylamino bis(didecylphosphino)triborine polymer

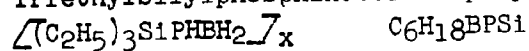


d) Dicyclohexylamino bis(dicyclohexylphosphino)triborine polymer



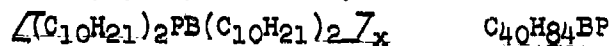
### 6 - Trialkylsilylphosphinoborine polymers

a) Triethylsilylphosphinoborine polymer



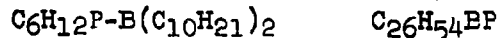
- b) Bis(triethylsilyl)phosphinoborine polymer  
 $\angle(C_2H_5)_3Si\angle_2PBH_2$   $C_{12}H_{32}BPSi_2$
- c) Bis(tricyclohexylsilyl)phosphinoborine polymer  
 $\angle(C_6H_{11})_3Si\angle_2PBH_2$   $C_{36}H_{68}BPSi_2$
- d) Tridecylsilylphosphinoborine polymer  
 $\angle(C_{10}H_{21})_3Si\angle_2PBH_2$   $C_{30}H_{66}BPSi_2$
- e) Bis(tridecylsilyl)phosphinoborine polymer  
 $\angle(C_{10}H_{21})_3Si\angle_2PBH_2$   $C_{60}H_{128}BPSi_2$
- 7 - Boron trifluoride amine complexes
- a)  $BF_3$ -polyethyleneimine  
 $(C_2H_5N-BF_3)_x$
- 8 - Bis(alkyleneaminoborine)
- a) Bis(ethyleneaminoborine)  
 $BH_2-NH-(CH_2)_4-NH-BH_2$   $C_4H_{14}B_2N_2$
- b) Bis(trimethyleneaminoborine)  
 $BH_2-NH-(CH_2)_6-NH-BH_2$   $C_6H_{18}B_2N_2$
- c) N,N'-diethyl(bismethyleneaminoborine)  
 $BH_2-N(C_2H_5)-(CH_2)_2-N(C_2H_5)-BH_2$   $C_6H_{18}B_2N_2$
- d) N,N'-dicyclohexyl(bismethyleneaminoborine)  
 $BH_2-N(C_6H_{11})-(CH_2)_2-N(C_6H_{11})-BH_2$   $C_{14}H_{30}B_2N_2$
- e) N,N'-didecyl(bismethyleneaminoborine)  
 $BH_2-N(C_{10}H_{21})-(CH_2)_2-N(C_{10}H_{21})-BH_2$   $C_{22}H_{50}B_2N_2$
- f) Piperazinobisborine  $C_4H_{12}B_2N_2$
- 9 - Dialkylphosphinodialkylborine polymers
- a) Dicyclohexylphosphinodicyclohexylborine polymer  
 $\angle(C_6H_{11})_2PB(C_6H_{11})_2\angle_x$   $C_{24}H_{44}BP$
- b) Dicyclohexylphosphinodidecylborine polymer  
 $\angle(C_6H_{11})_2PB(C_{10}H_{21})_2\angle_x$   $C_{32}H_{64}BP$

c) Didecylphosphinodidecylborine



10 - Hexamethylenephosphinodialkylborine polymers

a) Hexamethylenephosphinodidecylborine polymer



b) Hexamethylenephosphinodicyclohexylborine polymer

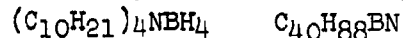


11 - Tetraalkylammonium tetrahydroborates

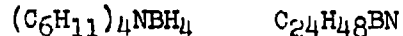
a) Tetrabutylammonium tetrahydroborate



b) Tetradecylammonium tetrahydroborate

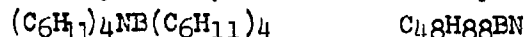


c) Tetracyclohexylammonium tetrahydroborate

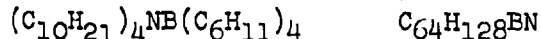


12 - Tetraalkylammonium tetraalkylborates

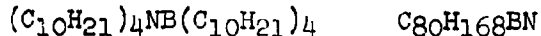
a) Tetracyclohexylammonium tetracyclohexylborate



b) Tetradecylammonium tetracyclohexylborate

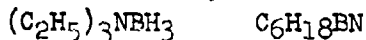


c) Tetradecylammonium tetradecylborate

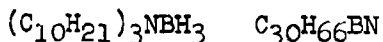


13 - Borane-trialkylamines

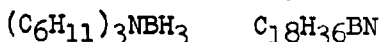
a) Borane triethylamine



b) Borane tridecylamine



c) Borane tricyclohexylamine



(d) Experimental Procedure

(1) Literature Survey

A compilation was made of boron compounds containing elements of atomic numbers 1 through 20. Literature surveyed was as follows:

Gmelin's Handbuch der anorganischen Chemie - Covers inorganic chemistry, physical chemistry, chemical technology, etc. from the classical period (ca. 1750) to 1950. Systems searched were Nos. 13-Boron (compounds with boron and includes elements of H, O, N, F, Cl and S), 15-Silicon, 20-Lithium, 21-Sodium, 22-Potassium, 23-Ammonium, 26-Beryllium, 27-Magnesium, 28-Calcium, and 35-Aluminum. Note that Systems for carbon and phosphorus have not been published.

Monsanto Boron Compound Literature Survey for 1950-7 - based upon Chemical Abstracts (CA) Vol. 44 (1950) through Vol. 51 (1957), National Advisory Committee for Aeronautics (NACA) file cards, and Technical Reports (PB) listed in the Catalog of Technical Reports CTR-303, "Boron and Its Compounds", June 1957, U.S. Dept. of Commerce, Office of Technical Services. Also covered were all PB reports and technical reports from NACA on boron and its compounds for the period before 1950.

Chemical Abstracts Vols. 52 (1958)-55 (April 1961). Abstracts were surveyed for all pertinent compounds found in the formula indices which were available through the first half of 1960. Volumes for the second half of 1960 and 1961 through March were surveyed page by page since formula indices were unavailable.

Rutgers University Progress Reports A-4 (Dec. 1, 1953-Jan. 31, 1954) and A-8 (Aug. 1, 1954-Sept. 30, 1954) by W. L. Ruigh et al, "Research on Boron Polymers", Contract AF 33(616)-2057, Proj. No. 53-670A-64 with Wright Air Development Center.

The SPIA (Solid Propellant Information Abstract) from 1961 back to the beginning of this publication was searched. All LPIA's (Liquid Propellant Information Abstract) were searched.

The entire ASTIA file was searched - all references to Boron compounds were looked at with abstract form. Approximately 5% of the ASTIA References were examined (microfilm or microcard).

An ASTIA reference to whether an article was also abstracted in SPIA or LPIA would have saved duplication.

The ASTIA abstracts were in general briefer than SPIA or LPIA. They were somewhat more informative as to whether physical properties of the compounds might be expected in the original article.

A McBee keysort card was prepared for each compound obtained from the search. Included on the card were formula and references and the following properties if available: density, melting point, boiling point, availability, explosiveness, flammability, toxicity and stability to air, water, hydrocarbons and heat. The cards were filed essentially by the Chemical Abstract formula index system.

## (2) Calculation Methods

### (a) Shielding Parameters

Given below are adopted calculation methods used by the computer.

$$\text{Hydrogen density (atoms} \times 10^{-22}/\text{cc)} = H = \frac{60.2338^{(a)} \times d \times n_H}{M}$$

where d = density = g/cc

$n_H$  = number of hydrogen atoms per molecule

M = molecular weight (see Table V for employed atomic weights)

$$\text{Microscopic removal cross section (barns)}^{(b)} = \sigma_r = n_a \sigma_a + n_h \sigma_h \dots$$

where n = number of atoms of a given type per molecule

$\sigma$  = effective removal cross section of specific atom (9) (see Table V) for 8 Mev neutrons

$$\text{Macroscopic removal cross section (barns} \times 10^{-24}/\text{cc or cm}^{-1}) =$$

$$\Sigma_r = \frac{0.602338 \times d \times \sigma_r}{M}$$

(a) From Avogadro's number (N) =  $6.02338 \pm 0.00016 \times 10^{23}$

(b) Barn, a unit of cross section =  $10^{-24} \text{ cm}^2$  (10)

TABLE V

## DATA AND CONSTANTS USED FOR CALCULATIONS

		Atomic No.	Atomic Weight (a)	Removal Cross Sections $\sigma_r$ , barns (a) (b)	Gamma-ray Energy/Thermal Neutron Capture, Mev-barns (c)	Atomic (d) Volume (cc/g-atom)
Carbon	C	6	12.011	0.81	0.016222	3.42
Hydrogen	H	1	1.008	1.00	0.7338095	11.4
Aluminum	Al	13	26.98	1.31	1.9954	9.99
Boron	B	5	10.82	0.97	1.3915	4.53
Beryllium	Be	4	9.013	1.07	0.061281	4.85
Calcium	Ca	20	40.08	1.58	3.991352	26.08
Chlorine	Cl	17	35.457	1.2	194.446	18.66
Deuterium	D	1	2.014742	0.88	0.0000005	11.6
Fluorine	F	9	19.00	1.29	0.07399	14.62
Potassium	K	19	39.10	1.54	22.259947	45.36
Lithium	Li	3	6.940	1.01	0.077386	12.97
Magnesium	Mg	12	24.32	1.22	0.53356	14.00
Nitrogen	N	7	14.008	1.07	1.079048	15.95
Sodium	Na	11	22.991	1.21	3.89480	23.68
Oxygen	O	8	16.000	0.99	0.00149	12.6
Phosphorus	P	15	30.975	1.334	1.82298	13.8
Sulfur	S	16	32.06	1.30	0.75854	15.96
Silicon	Si	14	28.09	1.26	0.78144	12.04

(a) Taken from page 1042 of the Reactor Handbook (9).

(b) Atomic microscopic removal cross sections are for 8 Mev neutrons.

(c) See Table VI.

(d) From Moeller (8) primarily = M.W./density (solid state), hydrogen value from Partington (2), deuterium value calculated from hydrogen value.

Secondary Gamma Radiation The calculations defined below give the gamma-ray energies produced upon capture of a thermal neutron. For any specific element A consisting of 3 isotopes  $A_1$ ,  $A_2$  and  $A_3$ , the total energy liberated by the gamma-capture process is a function of the gamma-ray energy  $E_A$ , the cross section  $\sigma_A$ , and the composition  $C_A$ . Thus for a specific element the total gamma-ray energy expected from each element per neutron capture is

$$E_{A_1} C_{A_1} \sigma_{A_1} + E_{A_2} C_{A_2} \sigma_{A_2} + E_{A_3} C_{A_3} \sigma_{A_3} = E_x$$

These values (units of Mev-barns) were calculated for each element of interest. Values used for  $E_{A_n}$ ,  $C_{A_n}$  and  $\sigma_{A_n}$  in the calculation of  $E_x$ , are summarized in Table VI. Known binding energies of the neutron were used for  $E_{A_n}$ . When unknown the values were calculated via by the mass defect where 1 mass unit = 931 Mev. Activation cross sections were utilized except when unavailable. In these cases absorption cross sections were used. With O-16, the very low cross section was ignored. With S-32 and Ca-43 no cross sections were available.

The final  $E_x$  values were corrected to include all gamma-decay energy where the isotopes had lifetimes less than 10 minutes. The  $E_x$  and corrected  $E_x$  values are also summarized in Table VI and Table V.

Gamma-Ray Energy Produced in a Molecule per Neutron Capture (Mev-barns) =  $E_M$

$$E_M = aE_x + bE_y + cE_z \text{ (for molecule } XaYbZc\text{)}$$

where a, b and c are the number of atoms of X, Y, and Z respectively in the molecule, and  $E_x$ ,  $E_y$ , and  $E_z$  are gamma-ray energies in Mev-barns produced in each element by one neutron (Table VI).

Macroscopic Gamma-Ray Energy (Mev-barns  $\text{cm}^{-3}$

$$\text{or Mev } \times \text{ cm}^{-1}) \sum_E = \frac{.602338 \times d \times E_M}{M}$$

where  $E_M$  is calculated as above.

GR values calculated and tabulated in the compound summaries were  $\sum_E \times 10^2$  to give easily scanned numbers.

TABLE VI

GAMMA-RAY ENERGY FROM THERMAL NEUTRON CAPTURE  
AND SHORT LIVED DAUGHTER DECAY

Element no.	Abundance <sup>2</sup>	Binding Energy Mev <sup>3</sup>	Cross Section Thermal n <sub>0</sub> , Farns <sup>4</sup>	Abundance x Binding Energy x Cross Section Mev-barns	Capture Gamma-Ray Energy Mev-barns	Gamma-Ray Energy Corrected for Daughter Decay Mev-barns <sup>1</sup>
H-1	0.999849	2.224	0.330**	0.733809	0.73381	0.7338
H-2	0.000139	6.256	0.00057	0.0000005		
Li-6	0.0752	7.243	0.028*	0.015251	0.07739	0.07739
Li-7	0.9248	2.036	0.033	0.062135		
Be-9	1.00	6.809	0.009	0.061281	0.061281	0.06128
B-10	0.1871	11.46	0.5*	1.072083	1.2086	1.3909
B-11*	0.8128	3.36	0.050	0.136550		
C-12	0.98892	4.946	0.0033	0.016141	0.01622	0.01622
C-13	0.01108	8.168	0.0009	0.000081		
N-14	0.99635	10.83	0.1**	1.079047	1.07905	1.07905
N-15*	0.00365	2.891	0.000024	0.0000002		
O-16	0.99759	4.142	0.5	0.001488	0.00149	0.001490
O-17	0.00037	8.445	0.00021	0.0000017		
O-18*	0.00204	4.072	0.009	0.059373	0.05937	0.07399
F-19*	1.00	6.597	0.56	3.89480	3.895	
Na-23	1.00	6.955	0.033*	0.189866		
Mg-24	0.7860	7.32	0.270**	0.302997	0.5285	0.5336
Mg-25	0.1011	11.10	0.050	0.035654		
Mg-26*	0.1129	6.43	0.21	1.6212	1.6212	1.995
Al-27*	1.00	7.720	0.080**	0.625369		
Si-28	0.9227	8.472	0.27**	0.133942	0.7814	0.78144
Si-29	0.0468	10.6	0.110	0.022130		
Si-30	0.0305	6.596	0.23	1.82298	1.823	1.823
P-31	1.00	7.926				
S-32	0.95018	8.645				
S-33	0.00750	11.33	0.0023	0.000195	0.07580	0.07585
S-34	0.04215	6.89	0.26	0.075507		
S-36*	0.00017	3.961*	0.14	0.000094		



TABLE VI (Cont'd.)

Element	Abundance <sup>2</sup>	Binding Energy Mev <sup>3</sup>	Cross Section Thermal $\sigma_0^1$ , Barns	Abundance x Binding Energy x Cross Section Mev-barns	Capture Gamma-Ray Energy Mev-barns	Gamma-Ray Energy Corrected for Daughter Decay Mev-barns
Cl-35	0.754	8.559	30	193.605	194.45	194.45
Cl-37	0.246	6.109	0.56	0.841576		
A-36	0.00397	8.764	6	0.208758		
A-38	0.00063	6.0747**	0.8	0.003062	3.413	3.413
A-40	0.996	6.064	0.53	3.20106		
K-39	0.9308	7.759	3	21.6662		
K-40	0.000119	9.984	70**	0.083167	22.26	22.26
K-41	0.0691	7.389	1.0	0.510580		
Ca-40	0.9697	8.469	0.22*	1.80672		
Ca-42	0.0064	8.051	40**	2.06106		
Ca-43	0.00145	11.3				
Ca-44	0.0266	7.1662***	0.63	0.121997	3.991	3.991
Ca-46	0.000033	6.3372****	0.25	0.000052		
Ca-48*	0.000185	4.2778 <sup>⊕</sup>	1.1	0.000870		

1. See reference 11.

2. See reference 12.

3. See reference 13.

\*Calculated from

\*\* " "

\*\*\* " "

\*\*\*\* " "

⊕ " "

4. Reactor Handbook, 2nd edition, Vol I - Materials, reference 9.

\*BNL 325 Neutron Cross Sections

\*\*Absorption Cross Section

$\{S-36 + n_0^1\} - \{Cl-37 + \bar{e} + 4.7 \text{ Mev}\}$   
 $\{A-38 + n_0^1\} - \{K-39 + \bar{e} + 0.57 \text{ Mev}\}$   
 $\{Ca-44 + n_0^1\} - \{Sc-45 + \bar{e} + 0.25 \text{ Mev}\}$   
 $\{Ca-46 + n_0^1\} - \{Ti-47 + 2\bar{e} + 2.6 \text{ Mev}\}$   
 $\{Ca-48 + n_0^1\} - \{Ti-49 + 2\bar{e} + 7.1 \text{ Mev}\}$   
 Reference 14

(b) Density

The physical density, employed in calculation of three of the five shielding parameters defined above, were reported for only ca. 12% of the compiled compounds. It was therefore necessary to establish methods for estimating or calculating densities.

Methods of computing densities were selected from the literature and tested by comparing calculated and actual densities for various boron compounds. Evaluated methods and results were as follows:

1 - Summation of Atomic Volumes Based on Covalent Radii, e.g. for triethyl borine,  $B(C_2H_5)_3$ :

Atom	Covalent <sup>a</sup> Radius (Å)	Atomic Volume <sup>b</sup> (cm <sup>3</sup> ) from Covalent Radius	Number In Molecule	Volume in Mole
B	0.80	1.29	1	1.29
C	0.77	1.15	6	6.90
H	0.37	0.128	15	1.92
				<u>Σ=10.11</u>

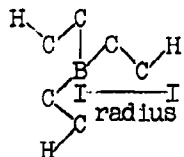
$$\text{Density} = \frac{\text{molecular weight}}{\text{molar volume}} = \frac{98.0}{10.11} = 9.68$$

This approach yielded a density an order of magnitude higher than the actual value, therefore is assumed invalid.

a. B and C covalent radii from Moeller (8); H value from the Handbook of Chemistry and Physics.

b.  $V = \frac{4}{3} \pi r^3 = 4.189 r^3$ ,  $V(\text{cm}^3/\text{atom}) = 4.189 \times 10^{-24} r^3$ ,  
 $V(\text{cm}^3/\text{mole}) = 4.189 \times 10^{-24} \times 6.023 \times 10^{23} r^3 = 2.523 r^3$   $\frac{\text{cm}^3}{\text{atomic mass unit (AMU) for monatomic elements.}}$

2 - Use of Rectilinear Molecular Radius, e.g. for triethyl borine,  $B(C_2H_5)_3$ :

	Bond	Distance Between <sup>a</sup> Atom Centers (Å)	Bond <sup>a</sup> Angles	Calculated <sup>b</sup> Rectilinear Distance (Å)
	B-C	1.54	B 120°	1.33
	C-C	1.54	C 109°28'	1.26
	C-H	1.04		0.85
	1/2 H			0.30
				<u>3.74</u>

Molar Volume  $(V)^0 = 2.523 r^3 = 2.523 (3.74)^3 = 132 \text{ cc/mole}$ ; density = 0.742 (calculated), actual density = 0.6961, error = -6.6%.

A similar calculation for triethyl borate,  $B(OC_2H_5)_3$ , yielded a value of 0.52 which is only 40% of the actual density. This method is therefore unreliable even for relatively simple organic molecules.

- a. Data of covalent radii and bond angles taken from Pauling (1).
- b. Equals: (sine of 1/2 bond angle) x distance between atom centers.
- c. Equation from Partington (2).

- 3 - Use of the Lutsckii Equation (3) - applicable to covalently bonded compounds:

Characteristic volumes of bound atoms are calculated by the equation

$$v_a = 4/3 \pi r_{\min}^3 - \sum n_i \pi (r_{\min} - r_k)^2 (r_{\min} - \frac{r_{\min} - r_k}{3})$$

where  $r_{\min}$  is the distance from the nucleus at which the potential energy of the atom interactions in molecules of relatively weak van der Waal's forces attains its minimum value (Lutsckii employs van der Waal's radii for  $r_{\min}$ ),  $r_k$  is the covalent radius and  $n_i$  is the number of bonds of a given type. The volume of the molecule is calculated by summing up computed atomic volumes,  $v_a$ 's, for all atoms forming a given molecule:

$$v_m = \sum_1 v_{a_i}$$

Density at absolute zero  $d_0$  is calculated by the equation:

$$d_0 = \frac{M\phi}{Nv_m}$$

where  $N$  = Avogadro's number  
 $M$  = molecular weight  
 $v_m$  = as defined above  
 $\phi$  = packing coefficient, given as 0.74 by Lutsckii

To convert densities at absolute zero to values for 20-25°C, correction factors were obtained by comparing Lutskii's absolute zero densities with those given in the Handbook of Chemistry and Physics for ambient temperatures.

$$d_{20-25^{\circ}\text{C}} \sim d_{0^{\circ}\text{K}}/1.28 \text{ (for liquids)}$$

$$\sim d_{0^{\circ}\text{K}} - 0.075 d_{0^{\circ}\text{K}} \text{ (for solids)}$$

Using the above formulas, densities were calculated for five organic boron compounds (triethyl borine, ethyl borate, isobutyl dichloroborinate, dimethylaminodiborane and 2-octyl borate) and compared with actual values. Calculated values were high by 3 to 23%. The method therefore is not quantitative but useful only for density approximation.

#### 4 - Use of Kalandiya (4) Equation for Inorganic Salts of the Type $\text{AnBmOs}$ :

In this method interatomic distances in salts of a cation  $\text{A}_n^{x+}$  and an anion  $\text{B}_m\text{O}_y^{-}$  are calculated from electrostatic considerations. A simplified version of the Kalandiya equation was developed and is given as follows:

$V = (R \times 10^{-8})^3 P N$  = molar volume of a salt, where

$$R = R_1 z_1 z_2 z_3 = \frac{R_{11}(z_2 z_3) + \frac{n-1}{\sqrt{z_3 z_4}} R_1(z_1)}{\sqrt{z_1 z_2 z_3 z_4}}$$

resultant radius of the salt,  $R_{11}(z_2 z_3) = r_1$  = distance between the ions  $\text{B}_m^{z_2}$  and  $\text{O}_y^{z_3}$  (sum of univalent radii),  $R_1(z_1) = r_2$  = radius (univalent) of the cation;  $z_1, z_2, z_3$  and  $z_4$  are the charges involved, respectively, in the bond between A, B, and O, and between O and an element of the cation,

$n$  = exponent of the repulsion law = 6, 7, 8, ----.

Values given by Kalandiya.

$P$  = number of atoms in the molecule, and

$N$  = Avogadro's number.

Using the above equations and ionic radii provided by Kalandiya, molar volumes were calculated for five salts:  $\text{NaClO}_3$ ,  $\text{NaBrO}_3$ ,  $\text{CaSiO}_3$ ,  $\text{Al}_2(\text{SO}_4)_3$  and  $\text{KBF}_4$ . Calculated molar volumes were within -1 to +4% of actual values indicating the method is fairly accurate. The disadvantages of this method are its specificity (to salts only) and the fact that hydrates are not treated in the formula.

5 - Use of Huggins' and Stevels' Equations (5,6,7) for Glasses and Minerals:

Huggins' Equation: (for  $M_m\text{O}_n$ )

$$d = 1 / (b_{Si} + \sum C_M N_M) (\sum n_M f_M / w_M)$$

where  $b_{Si}$  and  $C_M$  are empirical constants for component oxides,

$$N_M = \frac{n_M f_M / w_M}{\sum n_M f_M / w_M} = \text{number of different electro-}$$

positive atoms per atom of oxygen,

$n_M$  = number of oxygen atoms in the component oxide

$f_M$  = weight fraction of component oxide, and

$w_M$  = molecular weight of component oxide.

Calculated densities for two borosilicate glasses ( $\text{CaO} \cdot \text{B}_2\text{O}_3 \cdot 2\text{SiO}_2$  and  $2\text{CaO} \cdot 4\text{MgO} \cdot 3\text{Al}_2\text{O}_3 \cdot \text{B}_2\text{O}_3 \cdot 4\text{SiO}_2$ ) were low by about 30% of actual values.

Stevels' Equation:

$$d = \frac{100}{\gamma V} = \frac{C - Rx}{\gamma} = \frac{12.16 - 2.30 R}{\gamma}$$

where  $\gamma$  = total grams ions of  $\text{O}^{2-}$  in 100 grams of glass

$R = \gamma/G$ , where  $G$  = total gram ions of glass formers (as B, Si, etc.) in 100 g. glass

$V = \frac{V_0}{1 - Rx}$ , where  $V_0$  and  $x$  are constants, 8.224 cc and 0.19, respectively.

Evaluating this method on the same two glasses as above again yielded low densities (by 22 and 28%).

It was concluded that both the Stevels' and Huggins' equations would not yield accurate densities for many boron minerals in the file.

As the authors state, the methods are not applicable when high proportions of network modifiers (e.g. Li, Ca, Na, and Be) are present.

The above methods were not adopted because of their inaccuracy and/or their limited applicability. Two other methods were explored (6) by empirical comparisons for organic compounds and (7) by summation of atomic volumes and use of correction factors-applicable generally. These methods were adopted for deriving densities when unspecified. Described below are the methods as finally employed with estimated reliability.

- 6 - Empirical Estimation Method for Organics. A working density estimation file was prepared listing compounds by formula index on cards and listing densities in columns according to the presence of 0, 1, 2, etc. phenyl groups, cyclic groups or unsaturated radicals in the molecule. All organic compounds found in the search with reported densities (428) were included in the file. The listings revealed orderly trends of density variation depending on carbon and hydrogen content for a given formula index. From these listings it was possible to rapidly estimate densities of related compounds using interpolation or extrapolation techniques if necessary. The accuracy of this method was determined by estimating densities of the last 135 compounds as they were incorporated into the file. The average overall error was 13% and only five density estimates differed from actual values by more than 10%. This empirical estimation method was used whenever possible for organic compounds and yielded densities for about 1300 such compounds. Estimated densities are considered reliable within 10% of actual values.

- 7 - Summation Atomic Volumes Using Correction Factors. This method was employed for all compounds, organics, inorganics, etc., for which densities were unreported and not readily estimated (numbering ca. 3000 or ca. 60% of the compound total). Formulas used were as follows:

$$d = \frac{\text{molecular weight}}{\sum \text{atomic volumes}} \times F$$

where  $\Sigma \text{atomic volumes} = \Sigma n_1 v_{a1}$  and  $n_1$  = the number of atoms of a given type in a compound and  $v_{a1}$  = the atomic volume (8) (see Table V).

F is a series of empirically derived correction factors based on all available boron compounds with known densities. The computer determined individual factors for about 525 compounds of various types using the formula

$$f_1 = \frac{(\text{known density})(\Sigma \text{atomic volumes})}{\text{molecular weight}}$$

The data were put on cards and compounds were grouped according to similarity of  $f_1$  values and considering compound type. For organic compounds, there was a definite trend of increasing factor magnitude with increasing hydrogen/carbon number atom ratio. Hydrated inorganic compounds tended toward higher factors than anhydrous inorganics. Completed compound groupings and normalized factors are as follows:

(1) Organics (includes beryllium compounds):

<u>Hydrogen/Carbon Atom Ratio</u>	<u>Average Correction Factor</u>	<u>Factor Code Designation</u>
<1 through 1.1	1.08	2
1.2 " 1.5	1.23	5
1.6 " 2.0	1.34	0
2.1 " 2.5	1.42	6
2.6 " 3.0	1.50	7
3.1 " 6.0	1.71	8
*6.1 " 10.0	1.82	3
*11 " 19	2.00	9
* >19	2.21	1

(2) Metallo-organics (except beryllium):

<1 through 1.0	1.23	5
1.1 " 2.0	1.42	6
2.1 " 2.5	1.50	7
*2.6 " 3.0	1.82	3
*3.1 " 10	2.00	9
* >10	2.21	1

\*These assignments were obtained by extrapolation.

- (3) Polymers (no boron polymers with reported densities were contained in the file, so factors were determined for various (9) non-boron polymers (15,16) and the following scheme was developed for organic polymers:

Hydrogen/Carbon Atom Ratio	Correction Factor	Factor Code Designation
0 through 1.6	1.34	0
1.7 " 2.5	1.82	3
2.6 " 3.0	2.00	9
>3.0	2.21	1

- (4) Inorganics:

Compound Type	Average Factor	Code Designation
a. Metallic and non-metallic borides, boron oxides, aminoboranes	1.08	2
b. Boron hydrides, cyanide, nitride; $\text{BF}_3$ -additions except with ammonia or amines, inorganic acids, hydrous boron oxides, aluminum tetrahydroborates, nitrosyl tetrafluoroborates	1.71	8
c. Non-metallic salts as e.g. $\text{BPO}_4$	1.82	3
d. Non-hydrated metallic salts and mixed oxides (except those rich in alumina), hydroborates, fluoroborates, $\text{BF}_3$ -, $\text{LiBH}_4$ -, $\text{BH}_3$ - additions with ammonia or amines	2.00	1
e. Hydrated salts, minerals, and glasses (also non-hydrated alumina minerals)	2.21	1

(The few inorganic polymers in the file were treated by analogy, i.e. factors were selected according to compound type and by adjusting to the next highest factor level to allow for condensation in polymerization.)

The above scheme yielded an average error of  $\pm 7\%$  on comparison with actual densities for both organic and inorganic compounds. Since data was lacking it is not possible to assess accuracy for polymers and metallo-organics. In general, the summation atomic volumes calculation method is considered reliable to about  $\pm 10\%$  of actual densities. Virtually all values calculated by this method should fall within 20% of the actual densities.



### (3) Input to Computer

Pertinent information for all carded compounds was listed on keypunch data (A-88) forms for subsequent processing to 80 column IBM-704 punch cards. A chart showing specific data assigned to each column on each of the four IBM-704 punch cards is shown on page 54. The information was arranged as follows for each compound such that possibly four (4) IBM cards would be punched; the numbers in parentheses indicate columns used for this information.

Card 1 (80): compound number (1-5) and name (6-72)

Card 2 (80): compound number (1-5) and remaining portion of name if necessary (6-72)

Card 3 (80): compound number (1-5) and the number and types of atoms in the formula in the order of C (12,13), H (14,15,16), Al (17,18), B (19,20), Be (21,22), Ca (23), Cl (24,25), D (26,27), F (28,29), K (30,31), Li (32,33), Mg (34), N (35,36), Na (37,38), O (39,40), P (41,42), S (43) and Si (44,45)

Card 4 (80): compound number (1-5), code designation for physical state (6):

0 - solid	4 - unknown
1 - glass	5 - solid polymer
2 - liquid	6 - liquid polymer
3 - gas	7 - polymer

code designations for compound type (7):

0 - organic; 1 - inorganic

code designation for density employed (8):

+ literature value  
- estimated value  
(blank) calculated value

literature or estimated densities (9-14), melting points (15-22), availability (23):

0 - available	2 - theoretical
1 - developmental	4 - unknown

toxicity (24):

0 - non toxic; 1 - toxic; 4 - unknown

air (25), water (26), resin (28) and thermal (30) (to 100°C) stabilities:

0 - stable; 1 - unstable; 4 - unknown

explosivity (27):

0 - not explosive; 1 - explosive; 4 - unknown

flammability (29):

0 - nonflammable; 1 - flammable; 4 - unknown

density factor code designation (see section above)(32):

0 through 9

4 - used for no density calculation required

Primary reference in abbreviated form (41-53).

In specifying compound properties, the general rule was not to make assumptions, but rather to use information noted from the references. When in doubt the designation 4, "unknown", was employed in order to avoid fallacious assignments. This does not mean the properties are necessarily unknown, but rather that the literature searched did not contain them.

Also processed to the computer were calculation methods and data (Table V) required for computation of molecular weight, density and the various shielding parameters.

#### (4) Boron Compound Computations

Data on all unclassified boron compounds is listed in Compilations A and B and the classified data in Compilation C, Part B of this report. The organic compounds are listed first (Compilations A and C) in the atom order of C, H, Al, B, Be, Ca, Cl, D, F, K, Li, Mg, N, Na, O, P, S and Si. Empirical formulas follow this element sequence. Inorganic compounds listed in Compilations B and C, follow the order Al, B, Be, C, Ca, Cl, D, F, H, K, Li, Mg, N, Na, O, P, S and Si. The empirical formulas follow this same sequence except that H is listed first. These listings are analogous to that employed by Chemical Abstracts.

Input and calculated data for all boron compounds was printed out as 4 to 5 lines as shown in the example:

TRIMETHYLAMINOTETRABORINE POLYMER

JACS 79.2129 ORGAN.SOL.POL.CAL D 1.2216 NO 412.6 O4000410 T -0.

C 3 H 13 B 4 N 1

MW 106.42 MI 20.38 MA 0.1409 HD 8.99 EM 16.23 GR 11.22

The first one or two lines give the compound name using the IUPAC system when possible. The second line contained the following:

(a) reference: JACS 79.2129; Journal American Chemical Society Vol. 79, page 2129.

Since it was desirable to list single references, cited references were selected according to the following priorities:

- 1 - reference giving physical density
- 2 - reference giving melting point
- 3 - reference giving preparation
- 4 - reference giving general properties.

When in doubt the most recent reference was cited.

References were cited according to standard abbreviations for sources whenever possible. Deviations from the standard abbreviations and explanations are given below. In general the source abbreviation is followed by the volume number then a period, and after the period the page number. In cases of reports bearing large numbers such as PB and ASTIA documents, page numbers were omitted.

Reference Code

ACS 131. - Paper by S. J. Grozos presented at 131st American Chemical Society Meeting, April 1957.

ACS 132. - Paper given at 132nd American Chemical Society Meeting, September 1957.

AD - A.S.T.I.A. file designation (Armed Services Technical Information Agency).

AD BH.FC - AD (A.S.T.I.A.) Boron Halides and Related Compounds, Feuch and Chainaul.

AF 33 616.2057 - Air Force Contract 33(616)-2057, "Research on Boron Polymers", Bimonthly Progress Report A-8, Aug. 1, 1954 - Sept. 30, 1954.

AF 33 616.2743 - Ninth Interim Progress Report by Burg et al, Oct. 1956 on Air Force Contract 33(616)2743.

AM - American Mineralogist

Burg 132. - Paper by A. B. Burg at 132nd ACS Meeting.

Burg 6.238 - Contract No.-ONR (Office of Naval Research) 238(7) to Burg, Final Report June 1957.

CA - Chemical Abstracts

CPAC 16 - Paper presented at 16th International Congress of Pure and Applied Chemistry.

DA - J. D. Dana's Manual of Mineralogy, 17th Edition, John Wiley, New York (1959).

DIHB - Dissertation Abstracts

FMM - Fiz. i Metalloved, Akad. Nauk SSSR, Ural Filial.

GM - Gmelin

HB - Handbook of Chemistry and Physics (Chemical Rubber Publishing Company)

JACS - Journal of the American Chemical Society

KA - Kagaku (Kyoto) Japan

MA - Mineral Abstracts

MD - Monsanto Boron Compound Literature Survey, 1950-1957, by M. Dub, RD-58-Rep. No. 1190 (1958)

MI - Minerals

MM - Minerological Magazine

N .41344 - N (National Aeronautics and Space Administration designation) 41344 (MCC-1023-TR-162)

NACC .49199 - NACA (National Advisory Committee on Aeronautics) CN-49199

NACF 1.243 - NACA 5001-243

NACF 2.286 - NACA 6940-286

NACF .22633 - NACA FN-22633

NACN .20303 - NACA N-20303

NR 52.255 - Contract N6 ori-20, Project NR (Naval Research) 052-255, Tech. Rept. for Aug. 1, 1951 - July 31, 1952

ONRN 6.238 - Final Report, June 1957, on Naval Research Contract No. N6-ONR-238

ONR 0.52050 - ONR (Office of Naval Research) Project NR 052050

PB 1.17823 - PB (Publication Board) 117823

PHDD .1955, Mddrizter, K., PhD dissertation Univ. of Munich, Germany, 1955

SPIC 61.163 - SPIA (Solid Propellants Information Agency) C 61-163

SPIS 61.152 - SPIA S 61-152

WATR 57.126 - WADC (Wright Air Development Command) TR 57-126

- (b) Compound type: ORGAN - organic; INORG - inorganic
- (c) State: SOL - solid; LIQ - liquid; GAS - gas;  
UNKNOWN - unknown; POL - polymer
- (d) Density derivation: CAL.D - calculated density;  
EST.D - estimated density; KNO.D - known density
- (e) NO 412.6 - compound number 4126
- (f) Each of the eight digits following the compound number; i.e., 04000410 represent desired properties of the compounds in the following order:
- (1) availability
  - (2) toxicity
  - (3) air stability
  - (4) water stability
  - (5) explosiveness
  - (6) resin stability
  - (7) flammability
  - (8) thermal stability

Desirable properties, e.g., available, non-toxic, air stable, etc., are listed as zeros; 1 is used for undesirable properties and 4 indicates unknown.

- (g) The last letter and digit indicated melting point. When this was unknown the designation T -0 was used.

The third line represented the empirical formula and the fourth line, the calculated values of

MW - molecular weight

MI - microscopic removal cross section for 8 Mev neutrons in barns

MA - macroscopic removal cross section in  $\text{cm}^{-1}$

HD - hydrogen density in  $10^{22}$  atoms/cc

Em - gamma-ray energy in Mev-barns per thermal neutron traversing a single molecule

GR- $10^2x$  - gamma-ray energy in  $\text{Mev-cm}^{-1}$  per thermal neutron traversing a 1 cm distance of the compound

### (5) Screening Studies

The IBM-704 computer was programmed to deliver all compounds having macroscopic removal cross sections and hydrogen density values greater than the 95% value of high density polyethylene, containing 6% amorphous boron. Using densities of 0.96 for polyethylene and 1.73 for amorphous boron the macroscopic removal cross section and hydrogen density values were  $0.11507 \text{ cm}^{-1}$  and  $7.96 \times 10^{22}$  atoms/cc respectively.

Two lists of compounds, having shielding parameters similar or superior to polyethylene, containing 6% boron, were thus obtained from the unclassified and classified compounds. The unclassified list was studied and 16 selected which appeared to meet the minimum requirements for neutron shielding as specified by the Picatinny Arsenal:

#### Minimum Neutron Shielding Material Requirements

The following are the minimum requirements for consideration of a material for neutron shielding:

Hydrogen density -  $8.1 \times 10^{22}$  atoms/cc, or greater

Melting Point - in excess of  $165^{\circ}\text{F}$

Non-explosive

Non-toxic

Does not readily support combustion

Removal cross section equal to, or higher than, high density polyethylene containing 6% amorphous boron

Forms no explosive, readily combustible or toxic by-products when combined with an appropriate or binding resin (e.g. epoxy, etc.)

Does not decompose or lose more than 10% of its hydrogen in 5 years under normal storage.

The 16 unclassified boron compounds meeting the minimum shielding requirements are listed in Table I. The 113 unclassified compounds having high neutron removal cross sections and hydrogen density but rejected as potential neutron shields due to undesirable physical properties are summarized in Table II.

Reasons for rejection of these materials (Table II) as potential neutron shields are shown in the properties of each. In general, low melting points, thermal instability, hydrolytic and air instability, low macroscopic neutron removal cross sections and low hydrogen densities were the chief causes.

The classified boron compounds were similarly treated. The classified list of boron compounds meeting minimum neutron shielding properties is shown in Part B, Table I. In addition Table II, Part B includes boron compounds having macroscopic removal cross sections and hydrogen densities higher than polyethylene, containing 6% amorphous boron, but having undesirable shielding properties. These undesirable properties are defined in Table II, Part B for each compound as was done for the unclassified materials in Table II.

(6) Selection of Ten Potential Neutron Shielding Materials Containing Boron

The unclassified (Table I) and the classified list (Table I, Part B) of boron compounds meeting the minimum neutron shielding requirements above were further studied to select the 10 materials which best met the requirements for optimum neutron shielding properties as specified by the Picatinny Arsenal:

Optimum Neutron Shielding Material Requirements

The optimum neutron shielding material might be described as follows:

Physical Properties - A solid material having a softening temperature in excess of 200°F; the coefficient of linear expansion should be less than  $1.0 \times 10^{-5}$  inches per inch per degree Fahrenheit. Its thermal conductivity should be as high as possible to permit rapid, uniform cooling of thick massive sections from temperatures above the melting point. It should be capable of maintaining its physical integrity in thick sections when subjected to sudden high ballistic shock and penetration over the temperature range of -65°F to +160°F.

Chemical Properties - The material should be inert to moisture, petroleum fuels and matrix or binding resins when exposed to 160°F and high radiation fluxes as well as under normal conditions. It should be non-explosive, non-inflammable and non-toxic. It should not decompose or lose more than 10% of its hydrogen content in 5 years under normal storage.

Radiological Properties - The material should have a hydrogen density in excess of  $12.0 \times 10^{22}$  atoms/cc. It should have a high removal cross section (e.g. greater than 80 barns at 8 Mev). It should emit no (or very low level) secondary gamma radiation when subjected to a high neutron flux. Its physical and chemical properties should be relatively unaffected by prolonged exposure to low level gamma radiation or multiple exposure to high neutron fluxes of short duration.

Fabrication - The optimum neutron shielding material should be capable of being cast in place with a low viscosity and/or cast in place when combined with an appropriate matrix or binding resin. Casting shrinkage should be negligible, while the material should maintain uniform density and offer complete absence of any voids or cracks after cooling or final set. When used with a matrix or binding resin, it must be available in several mesh sizes, ranging from  $1/4"$  pellets to a coarse powder in order to attain maximum packing or bulking factor.

A total of 7 boron polymers were selected from Table I on the basis of highest neutron removal cross sections, highest hydrogen densities, availability, non-explosiveness and stability to air, water and temperatures of 200°F. These compounds and their properties are listed in Table III. As noted macroscopic neutron removal cross sections ranged from  $0.1318 \text{ cm}^{-1}$  to  $0.1409 \text{ cm}^{-1}$  and hydrogen densities of 8.35 to  $9.38 \times 10^{22}$  atoms/cc.

Each of these materials is in the experimental phase and little is known of their physical properties. However, it appears that each could be developed into shielding materials either individually or blended with suitable binders to effect desired mechanical characteristics.

In Table I dimethylaminobis-(dimethylphosphino)-triborine polymer had attractive macroscopic neutron removal cross section ( $0.1404 \text{ cm}^{-1}$ ) and hydrogen density ( $9.01 \times 10^{22}$  atoms/cc) values as well as good physical properties. However, this material was rejected on the basis of extremely low preparative yields.

The classified compounds (Table I, Part B), meeting minimum neutron shielding requirements were similarly studied and three selected that best met the optimum neutron shielding specifications listed above. These materials and their properties are tabulated in Table III, Part B.



### (7) Cost Estimates

Rough cost estimates were made on those boron compounds best meeting optimum neutron shielding requirements (Table III and Table III, Part B) for 50 and 500 lb. lots and at production rates of 2 and  $4 \times 10^6$  lb./yr. These are summarized in Table IV. The boron shielding materials selected from the classified compilation (Table III, Part B) were similarly estimated and summarized in Table IV, Part B.

These costs are only approximate manufacturing costs derived by conventional first approximation methods. Detailed and firm costs for each compound would require an effort beyond the scope of the problem in its present stage.

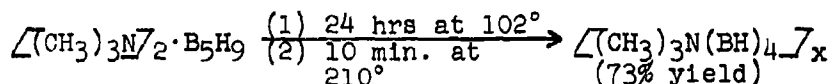
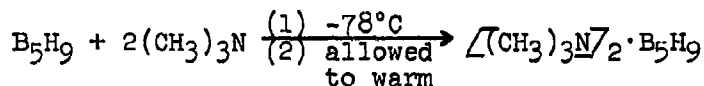
The cost estimates were based on the assumption that a practical process could be developed from the meager experimental details available from the exploratory reports. In all cases sufficient information is not available to indicate a large scale operable process. Special handling of the extremely toxic and potentially explosive raw materials can be expected to complicate all cost estimates.

Raw material prices are a major factor in contributing to the high manufacturing costs. In a number of cases prices for large quantities of the materials were unavailable. Prices for diborane, pentaborane and decaborane were potential costs based on estimates from a major supplier. Some of the major raw material prices used in this cursory estimate are:

	\$ / lb.		
	50-500	2,000,000	4,000,000
	lb.	lb.	lb.
Diborane	85	2.50	2.00
Pentaborane	250	5.00	4.00
Decaborane	295	6.00	5.00
Acetamide	1.20	1.20	1.20
Diethyl sulfide	2.75	2.75	2.75
Triethyl sulfide	1.10	1.10	1.10
Methyl dichlorosilane	3.00	3.00	3.00
Propargyl bromide	5.75	5.75	5.75
Allyl bromide	1.55	1.55	1.55
5% Platinum on charcoal	4.00	4.00	4.00
Phenyl lithium	7.50	7.50	7.00
Isopropenylacetylene	2.00	2.00	2.00
n-Butyl lithium	7.50	7.50	7.50

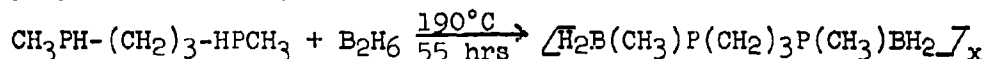
The following synthesis steps were used for the 7 compounds selected (Tables V and VI):

- 1) Trimethylaminotetraborane polymer (4126)



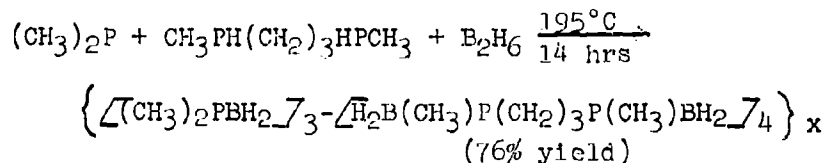
Justification: stable to air, water and heat, thermoplastic at 100-160°C.

- 2) 1,3-Trimethylene-P, P'-bis(methylphosphinoborine) polymer (No. 4154)



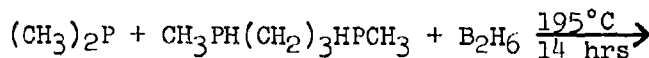
Justification: stable to air, water and heat. An elastic, friable solid, insoluble in most solvents.

- 3) 3/4 Copolymer of dimethylphosphinoborine/1,3-trimethylene-P, P'-bis(methylphosphinoborine) (No. 4246)



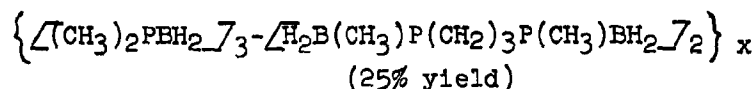
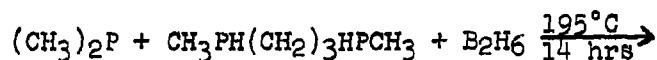
Justification: stable to air, water and heat, melting point >350°C.

- 4) 1/1 Copolymer of dimethylphosphinoborine/1,3-trimethylene-P, P'-bis(methylphosphinoborine) (No. 4244)



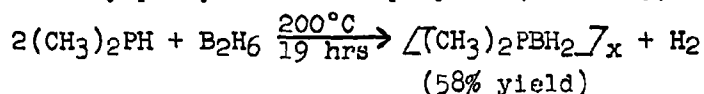
Justification: stable to air, water and heat, failed to ignite at 308°C.

- 5) 3/2 Copolymer of dimethylphosphinoborine/1,3-trimethylene-P, P'-bis(methylphosphinoborine) (No. 4248).



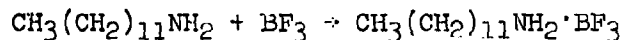
Justification: stable to air, water and heat, failed to ignite at 340°C.

6) Dimethylphosphinoborine polymer (No. 4123)



Justification: stable to air and heat, melting point = 170.5°C.

7) Boron trifluoride-dodecylamine (No. 1266)



(reaction essentially complete)

Justification: stable to air and water, can be handled and used as a medicinal, detergent or pesticide. May assume non-explosive and resistant to combustion. Can be made readily and inexpensively.

(8) IBM-704 Computer Program Description

The Boron Shielding Program consists of a series of main computer programs with several specific subroutines. The first program described in the Fortran Listing 1 as the revised 2075 caller does the main data read in, some computation, and the preparation of the binary master tape. The first subroutine referred to is in the statement call EOF(NF). This subroutine is used to determine when the input is complete and will start the output operation at the end of a particular set or block of input data. The next instructions are used to initialize information relating to the printed output. The statement following statement number 2 tests to determine whether or not this is the initial data being processed or is a second or later set of data. For all sets of data after the first set, the master tape is spaced forward to the end of the previous set of information so that new data is added after the previously processed results. The statements starting at statement number 11, continuing through statement number 1006, refer to the input of the 3 or 4 cards of data. Following this, the next block of statements covers the testing and possible calculation of density for the material

being processed. If the density on input is positive, the value is treated as a known density. If the input value is negative, the information is used in all the calculations but it is flagged as an estimated value. If the input value is zero no calculation will be performed until the density has been calculated by the special subroutine called DENSIT. This particular subroutine is explained below. After the density has either been calculated or observed to be an estimate or a known value, control is transferred to statement number 17 in the program. The block of calculations beginning at statement number 17 extending through statement number 18 plus 3 will calculate the molecular weight, the radiation parameters, the hydrogen density, and other desired factors. Following this is a write tape statement which prepares one record on the binary master tape, tape number 2. Immediately following that is a statement calling the Output Subroutine, Fortran Listing 2.

The Density Subroutine, Fortran Listing 3, is used to calculate the density for all compounds having zero density on input. Nine type factors are available for actual calculation plus one factor indicating that the type is unknown and no calculation may be performed. The statement immediately before statement number 20 is a multiple position switch indicating which of the various calculation factors are to be used. If the value of the variable ITYP is equal to 4 on entrance to the subroutine, the calculation will be by-passed and a message will be printed indicating that no density calculation was performed. In order to prevent confusion in the calling program, the density will be set to an extremely large number, ten to the thirtieth power. For any values other than 4 the appropriate factor FAC will be chosen based on the multiple switch. The block of statements starting at statement number 15 will then be initiated calculating the atomic volume sum and the molecular weight. The calculation of density is then performed by multiplying the factor times the molecular weight and dividing by the sum of atomic volumes. If this subroutine is called with a positive value of dens, the known density, it will also check the ratio of the known density and the calculated value therefore determining a new value for the multiplying factor. This calculation is performed at statement number 17.

(e) Man Hours Expended

Literature Survey	1439
Tabulation	402
Compound Study and Selection	272
Compilation Corrections	257
Cost Calculation, Planning, Organization Reports	755
Final Report	312

# MAIN PROGRAM - FORTRAN LISTING 1

```

C DJK REVISED 2075 CALLER 1/8/62
C DJK PROBLEM 2075
C      BEACH SHIELDING PRCG.1
C      WRITES THE TAPES, MASTER(2) AND CLTPLY (10)
C      INPUT IS 3 OR 4 CARDS, 1(CR2) WITH NAME, 3 WITH ATOMIC FORM, 4 MISC.
C      PROGRAM STARTS WITH TAPE 2 BLANK(ISH) CCHN) OR PARTLY WRIT(ISH) LP)
C      DIMENSION SAVE(500),VCLA(10)
C      DIMENSION AME(24),KAT(10),XPN(10),SIG(10),GAM(10)
C      COMMON SAVE,AME,KAT,XPN,SIG,GAM,VCLA,CMPC,TYPE,ITYP,PRCP,CENS,TPP,
1REF,VCL,PAGE,WT,S1,EP,S2,MCEN,GRE,IPR,11,12,13,14,15,16,17,18,19,
211C,NPAGE
E      PLANN = 606060606060
      CALL ECF(INF)
      NPAGE = 1
      IPR = 0
      ASSIGN 2 TO NF
      GO TO NF,(2,10,100)
      2 ASSIGN 10 TO NF
      (SNT 1) 11,3
C      END OF FILE LOCATED ON T2, BACK LP
      10 BACKSPACE 2
C      START HERE FIRST TIME
      11 ASSIGN 100 TO NF
      11C3,1001,CMPC,(1 AME(1),1=1,12)
      11C3,1002,(1 AME(1),1=13,24)
      IF(AME(13)-E(ANK)) 13,12,13
      12 CALL REWIND
      REW 1003,(KAT(1),1=1,10)
      GO TO 14
      13 RTCS,1003,(KAT(1),1=1,1P)
      14 RTCS,1004,TYPE,LENS,TPP,PRCP,REF,VCL,PAGE
C      AFTER 14
      14C 9C,1006,11,12,13,14,15,16,17,18,19,110,ITYP
      1006 F(5X,211,15X,211,1X,11)
C      CHECK DENSITY
      SAVE(500) = 3*MCN
      IF(DENS)15,116,17
      15 CENS = CENS
      SAVE(500) = 3*HST
      GO TO 17
      11C CALL CENSIT
      SAVE(500) = 3*CAL
      GO TO 17
C      CALC. PCL,WT, MICRO CROSS SECTION AND PEAK GAMMA
      17 WT = C.O
      S1 = C.O
      EP = C.O
      LC 10 1 = 1,10
      AT = KAT(1)
      WT = WT + AT * XPN(1)
      S1 = S1 + AT * SIG(1)
      EP = EP + AT * GAM(1)
C      MACRO CROSS-SECTION DENSITY, GAMMAEQUIV
      S2 = C.602338 * CENS * S1/WT
      MCEN = C.602338 * CENS*(FLLAIF(KAT(2)+KAT(8)))/WT
      GRE = C.602338 * CENS * EP /WT
C      WRITE NEXT RECORD IN TAPE 2 AND CLTPLY IN 10
      WRITE TAPE 2, CMPC, AME,KAT,TYPE,PRCP,CENS,TPP,REF,VOL,PAGE,
1WT,S1,EP,S2,MCEN,GRE
      CALL CLT
      GO TO 11
C      END OF FILE LCC.
      3 CALL ECF(INF)
      REW TAPE 2,CLP
      GO TO 3
C      END OF FILE AT CARD READER
      100 END FILE 2
      REWIND 2
F      X = 777777777777
      SICE 77777
C      FORPATS 1 HAVE KNCAN
      1001 F(5F,1,11A6,A1)
      1002 F(5F,11A6,A1)
      1003 F(11X,12,13,312,11,912,11,412,11,12)
      1004 F(1X,C2,F7.4,FR.2,C8,1CX,2A4,A5)
      ENL(2,2,C,2,2)

```

# OUTPUT SUBROUTINE - FORTRAN LISTING 2

```

C DJK REVISED OUTPUT MARCH 12 PROBLEM 2075
SUBROUTINE OUT
  DIMENSION PROPS(18)
  DIMENSION SAVE(500), VOLA(18)
  DIMENSION AME(24), KAT(18), XHW(18), SIG(18), GAM(18)
  COMMON SAVE, AME, KAT, XHW, SIG, GAM, VOLA, CMPD, TYPE, ITYP, PRQZ, DENS, TMP,
  IREF, VOL, PAGE, WT, S1, EM, S2, HCEN, GRE, IPR, I1, I2, I3, I4, I5, I6, I7, I8, I9,
  Z110, NPAGE
  BLANK=606060606060
  IF (IPR) 200, 201, 200
201 PRINT 1000, NPAGE
  NPAGE = NPAGE + 1
  GO TO 202
200 IF (IPR) 101, 202, 203, 203
202 IPR = IPR + 1
  GO TO 4
203 IPR = 0
  GO TO 201
  4 PRINT 1001, (AME(I), I=1, 12)
  IF (AME(13) - BLANK) 501, 7, 501
501 PRINT 2001, (AME(I), I=13, 24)
  7 I1=1141
  GCTC(91, 92, 93, 94, 95, 191, 192, 193), I1
191 KK2 = 6HSOLPOL
  GOTO 96
192 KK2 = 6HLISOL
  GCTC 96
193 KK2 = 6HNPOLMER
  GOTO 96
  91 KK2 = 6H SOLID
  GOTO 96
  92 KK2 = 6H GLASS
  GOTO 96
  93 KK2 = 6HLISOL
  GOTO 96
  94 KK2 = 6H GAS
  GOTO 96
  95 KK2 = 6HUNKNOM
  96 IF (I2 - 1) 97, 98, 99
  98 KK1 = 6HINDRC
  GCTC 90
  97 KK1 = 6HURGAN
  GOTO 90
  99 KK1 = 6HUNKNOM
  90 PRINT 1003, REF, VOL, PAGE, KK1, KK2, SAVE(500), DENS, CMPD, I3, I4, I5, I6, I7,
  I8, I9, I10, TMP
C BLOCK TO SORTOUT FORMULA
  DIMENSION SYM(18), SYMB(18), JAT(18)
  SYM(1) = 2H C
  SYM(2) = 2H H
  SYM(3) = 2H AL
  SYM(4) = 2H B
  SYM(5) = 2H BE
  SYM(6) = 2H CA
  SYM(7) = 2H CL
  SYM(8) = 2H D
  SYM(9) = 2H F
  SYM(10) = 2H K
  SYM(11) = 2H LI
  SYM(12) = 2H MG
  SYM(13) = 2H N
  SYM(14) = 2H NA
  SYM(15) = 2H O
  SYM(16) = 2H P
  SYM(17) = 2H S
  SYM(18) = 2H SI
  I=0
  DO 300 J=1, 18
  IF (KAT(J)) 300, 300, 310
310 I=I+1
  SYMB(I) = SYM(J)
  JAT(I) = KAT(J)
300 CONTINUE
  PRINT 1004, (SYMB(I), JAT(I), I=1, I1)
  PRINT 1005, WT, S1, S2, HCEN, EM, GRE
1000 F(2H1A15)
1001 F(1H011A6, A1)
2001 F(1H 11A6, A1)
1003 F(1X2A4, A5, 2A6, A3, 2H DF7.4, 3H NUF6.1, 1X, B11, 2H TF8.2)
1004 F(1X, 181A2, I3)
1005 F( 3H MW F8.2, 3H ME F7.2, 3H MA F7.4, 3H MD F7.2, 3H CM F7.2, 3H GR
1005 IF (7.2)
  RETURN
  END(2.0, 2, 2)

```

# DENSITY SUBROUTINE - FORTRAN LISTING 3

```

C DJK DENSITY SUBR FOR 2075
C REV IC 101 9 D FACTORS 12-18-61
      SUBROUTINE DENSIT
      INSERT DIM + COM
      DIMENSION SAVE(500),VOLA(18)
      DIMENSION AME(24),KAT(18),XMW(18) ,SIG(18),GAM(18)
      COMMON SAVE,AME,KAT,XMW,SIG,GAM,VOLA,CMPCD,TYPE,ITYP,PROP,DENS,TMP,
      IREF,VCL,PAGE,WT,S1,EM,S2,HGEN,GRE,IPR,11,12,13,14,15,16,17,18,19,
      2110
      ITYP = ITYP + 1
      GCTC(11,12,13,14,20,21,22,23,24,25),ITYP
20 DENS= 1.0E+30
      PRINT 120
      GO TO 500
120 F(18HC NC DENSITY CALC.)
      11 FAC=1.34
      GCTC 15
      21 FAC = 1.23
      GCTC 15
      22 FAC = 1.42
      GCTC 15
      23 FAC = 1.50
      GCTC 15
      24 FAC=1.71
      GCTC 15
      25 FAC=2.00
      GCTC 15
      12 FAC = 2.21
      GCTC 15
      13 FAC = 1.08
      GCTC 15
      14 FAC = 1.82
      15 W1 = 0.0
      VS = 0.0
      GO TO 1=1,18
      AT= KAT(I)
      W1=W1+ AT* XMW(I)
      16 VS= VS+ AT*VOLA(I)
      IF (DENS) 18,18,17
      17 FACT=DENS*VS/W1
      PRINT 121,ITYP,FACT
      18 CONTINUE
      121 F (13HO CMPCD,TYPE= 12,10H FACTOR = F10.5)
      DENS = FAC * W1/VS
      500 RETURN
      END(2,2,0,2,2)

```

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(g) List of Tables and Compilations

Part A (Unclassified)

Table I, Unclassified Boron Compounds Best Meeting  
Minimum Neutron Shielding Requirements

Table II, Unclassified Boron Compounds with High Removal  
Cross-sections and Hydrogen Densities but  
Unsuitable Properties

Table III, Compounds from Open Literature Selected on  
Basis of Optimum Criteria

Table IV, Estimated Manufacturing Costs of Selected  
Boron Shielding Materials

Table V, Data and Constants Used for Calculations

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and Short-Lived Daughter Decay

Fortran Listing 1 - Computer Main Program

Fortran Listing 2 - Computer Output Subroutine

Fortran Listing 3 - Computer Density Subroutine

Compound Compilation A, Neutron Shielding Properties of  
Unclassified Organic Boron Compounds  
Plates A-1 - A-366

Compound Compilation B, Neutron Shielding Properties of  
Unclassified Inorganic Compounds  
Plates B-1 - B-84

bw

Compd. No.	and Name
1	2

Order of Compound Name: 15 Needed-

C	H	Al	B	Be	C	D	P	K	Li	Na	Cl	P	S	Si
---	---	----	---	----	---	---	---	---	----	----	----	---	---	----

Card 4

Investigative  
Techniques (or  
Source of Density Data)  
Density

4000 3000 2000 1000

AYBIBABBY

Stability in Air  
Stability in Water  
Explosivity  
Flash Stability  
Flammability  
Thermal Stability (D)

Penalty Factor

**Y**

OPTION

• Park No. 1

### Source of Data

COMPOUND COMPILATION A

Neutron Shielding Properties of Unclassified  
Organic Boron Compounds

Plates A-1 - A-366

(See pages 38-41 for descriptive key of  
print out data used in this compilation)

A 1

## BROMON TRIFLUORIDE-HYDROGENCYANIDE

CA 13. 1780ORGAN. SOLIDEST D 1.7000 NO 526.0 01144444 T -0.  
C 1 H 1 B 1 F 3 N 1  
Mw 94.85 MI 7.72 MA 0.0833 HD 1.08 EM 3.44 GR 3.72

## BROMON TRIFLUORIDE-FORMYL FLUORIDE

CA 51. 3502ORGAN. LIQUIDCAL D 1.3835 NO2480.0 04444444 T -112.00  
C 1 H 1 N 1 F 4 O 1  
Mw 115.84 MI 8.93 MA 0.0642 HD 0.72 EM 2.44 GR 1.75

## BROMON TRICHLORIDE-CARBONYL ANINE

NACN 19890ORGAN. SOLIDCAL D 1.8741 NO2481.0 04144441 T -0.  
C 1 H 2 H 1 CL 3 N 1 O 1  
Mw 161.23 MI 9.44 MA 0.0661 HD 1.40 EM 587.29 GR 411.19

## DIFLUORODIFLUOROMETHYLFLUORINE

CA 51. 16781ORGAN. LIQUIDCAL D 1.4700 NO2482.0 04444444 T -47.00  
C 1 H 2 H 1 F 3  
Mw 81.85 MI 7.65 MA 0.0828 HD 2.16 EM 3.10 GR 3.35

## BROMON TRIFLUORIDE-FORMIC ACID

CA 55. 12004ORGAN. UNKNOWNCAL D 1.6000 NO 528.0 04444444 T -0.  
C 1 H 2 B 1 F 3 O 2  
Mw 113.85 MI 9.63 MA 0.0815 HD 1.69 EM 3.10 GR 2.62

## CYANOBORINE

CA 54. 3031ORGAN. SOLIDEST D 1.0000 NO 529.0 04411444 T -0.  
C 1 H 2 B 1 N 1  
Mw 38.85 MI 4.85 MA 0.0752 HD 3.10 EM 3.45 GR 6.13

## BROMON TRIFLUORIDE-METHYLCHLORIDE

CA 13. 1760ORGAN. UNKNOWNCAL D 1.6955 NO2485.0 04444444 T -0.  
C 1 H 3 B 1 CL 1 F 3  
Mw 118.31 MI 9.85 MA 0.0890 HD 2.59 EM 198.28 GR 171.15

## DICHLOROMETHYLBORANE

CA 13. 2400ORGAN. LIQUIDEST D 1.1000 NO 530.0 04444444 T -127.10  
C 1 H 3 B 1 CL 2  
Mw 96.77 MI 7.18 MA 0.0492 HD 2.05 EM 392.50 GR 288.74

## DICHLOROMETHOXYBORINE

CA 13. 2490ORGAN. LIQUIDEST D 1.2000 NO 531.0 04444444 T -14.90  
C 1 H 3 B 1 CL 2 O 1  
Mw 112.77 MI 8.17 MA 0.0524 HD 1.92 EM 392.50 GR 251.58

## DICHLOROMETHYLSILYLBORINE

CA 52. 18104ORGAN. UNKNOWNCAL D 2.0295 NO2483.0 04444444 T -0.  
C 1 H 3 B 1 CL 2 O 1 Si 1  
Mw 140.86 MI 9.43 MA 0.0818 HD 2.60 EM 373.28 GR 341.31

A 3

## LITHIUM CYANOTRIMETHYLBORATE

CA 46. 6025ORGAN. UNKNOWNCAL D 1.3171 NO2491.0 04444444 T 5.00  
C 1 H 1 B 1 Li 1 N 1  
Mw 46.80 MI 6.86 MA 0.1163 HD 5.04 EM 4.77 GR 8.08

## BORANE-CARBON MONOXIDE

CA 13. 1000ORGAN. LIQUIDEST D 1.0000 NO 533.0 04444444 T -137.00  
C 1 H 3 B 1 O 1  
Mw 41.85 MI 5.77 MA 0.0830 HD 4.32 EM 3.61 GR 5.78

## METHYL BORATE

CA 53. 16449ORGAN. UNKNOWNEST D 1.0000 NO 534.0 04444444 T -0.  
C 1 H 3 B 1 O 2  
Mw 57.85 MI 6.76 MA 0.0704 HD 3.12 EM 1.61 GR 3.76

## METHOXYBOROACILL

CA 46. 3893ORGAN. UNKNOWNCAL D 1.6459 NO2492.0 04444444 T 5.00  
C 1 H 3 B 1 O 4  
Mw 111.49 MI 10.68 MA 0.0950 HD 2.67 EM 6.40 GR 9.69

## METHYLPHOSPHINOCHELOROBORINE

AD142. 0280ORGAN. UNKNOWNCAL D 1.6270 NO4169.0 04444444 T -0.  
C 1 H 4 B 1 CL 1 P 1  
Mw 93.24 MI 8.31 MA 0.0873 HD 4.20 EM 200.61 GR 210.74

## CHLORODRAZINE

CA 13. 2520ORGAN. UNKNOWNEST D 1.2000 NO 535.0 04444444 T -0.  
C 1 H 4 B 1 CL 2 N 1  
Mw 111.78 MI 9.25 MA 0.0598 HD 2.59 EM 394.31 GR 254.96

## BROMON TRICHLORIDE-UREA

AD104. 1500ORGAN. SOLIDCAL D 1.9678 NO4436.0 04144441 T -0.  
C 1 H 4 B 1 CL 3 N 2 O 1  
Mw 177.25 MI 12.51 MA 0.0837 HD 2.67 EM 589.84 GR 394.43

## BROMON TRIFLUORIDE-UREA

NACN 23626ORGAN. SOLIDCAL D 1.5409 NO2493.0 04144441 T 77.80  
C 1 H 4 B 1 F 3 N 2 O 1  
Mw 127.88 MI 12.76 MA 0.0928 HD 2.90 EM 6.72 GR 4.88

## BROMON TRIFLUORIDE-METHANOL

CA 53. 5942ORGAN. LIQUIDCAL D 1.4000 NO 65.0 04444444 T -18.60  
C 1 H 4 B 1 F 3 O 1  
Mw 94.86 MI 10.64 MA 0.0898 HD 3.38 EM 4.57 GR 3.86

## TRIFLUOROMETHOXYBORIC ACID

CA 49. 5191ORGAN. UNKNOWNEST D 1.4500 NO 536.0 04444444 T -0.  
C 1 H 4 B 1 F 3 O 1  
Mw 99.86 MI 10.64 MA 0.0931 HD 3.50 EM 4.57 GR 3.99

A 2

## DICHLOROMETHYLTHIOBORINE

CA 53. 20808ORGAN. UNKNOWNCAL D 2.0250 NO2486.0 04444444 T -0.  
C 1 H 3 B 1 CL 2 S 1  
Mw 128.83 MI 8.48 MA 0.0803 HD 2.84 EM 393.26 GR 372.33

## BROMON TRICHLORIDE-CYANOSILICANE

AD252. 0940ORGAN. UNKNOWNCAL D 2.0733 NO4250.0 04444444 T -0.  
C 1 H 3 B 1 CL 3 N 1 Si 1  
Mw 174.32 MI 10.71 MA 0.0767 HD 2.15 EM 588.81 GR 421.81

## BROMON TRICHLORIDE-METHYLCHLORIDE

CA 13. 2000ORGAN. UNKNOWNCAL D 2.1536 NO2487.0 04444444 T -0.  
C 1 H 3 B 1 CL 4  
Mw 167.68 MI 9.98 MA 0.0741 HD 2.32 EM 781.39 GR 604.50

## DIFLUOROMETHYLBORINE

CA 13. 2480ORGAN. LIQUIDEST D 0.9500 NO 532.0 04044441 T -130.40  
C 1 H 3 B 1 F 2  
Mw 63.85 MI 7.36 MA 0.0660 HD 2.69 EM 3.76 GR 1.37

## METHYL DIFLUOROBORINATE

CA 264. 2902ORGAN. SOLIDCAL D 1.4340 NO 399.0 04414444 T 61.90  
C 1 H 3 B 1 F 2 O 1  
Mw 79.85 MI 8.35 MA 0.0903 HD 3.24 EM 3.76 GR 4.07

## BROMON TRIFLUORIDE-FORMAMIDE

NACN 135785ORGAN. LIQUIDCAL D 1.4778 NO2488.0 04114441 T 58.50  
C 1 H 3 B 1 F 3 N 1 O 1  
Mw 112.86 MI 10.71 MA 0.0845 HD 2.37 EM 4.91 GR 3.87

## BROMON TRIFLUORIDE-NITROSULFINYL METHANE

CA 48. 50110ORGAN. UNKNOWNCAL D 1.6655 NO2489.0 04444444 T 5.00  
C 1 H 3 B 1 F 3 N 1 S 1  
Mw 146.92 MI 12.01 MA 0.0831 HD 2.08 EM 5.67 GR 3.93

## CYANODIFLUOROBORINE-FLUOROSILICANE

AD252. 0940ORGAN. UNKNOWNCAL D 1.6441 NO4251.0 04444444 T -0.  
C 1 H 3 B 1 F 3 N 1 Si 1  
Mw 124.95 MI 10.98 MA 0.0870 HD 2.38 EM 5.69 GR 4.31

## BROMON TRIFLUORIDE-FLUOROMETHANE

CA 51. 1379ORGAN. UNKNOWNCAL D 1.5183 NO2490.0 04444444 T 5.00  
C 1 H 3 B 1 F 4  
Mw 101.85 MI 9.94 MA 0.0892 HD 2.69 EM 3.91 GR 3.91

## METHOXYBORON TRIFLUORIDE

CA 47. 9127ORGAN. UNKNOWNEST D 1.4500 NO 527.0 04444444 T -0.  
C 1 H 3 B 1 F 3 O 1  
Mw 98.84 MI 9.64 MA 0.0852 HD 2.65 EM 3.83 GR 3.39

A 4

## BROMON TRIFLUORIDE-METHANOL

CA 47. 9127ORGAN. LIQUIDEST D 1.4500 NO 537.0 04444444 T -18.60  
C 1 H 4 B 1 F 3 O 1  
Mw 99.86 MI 10.64 MA 0.0931 HD 3.50 EM 4.57 GR 3.99

## METHYLBORAZINE

CA 13. 2410ORGAN. UNKNOWNEST D 0.7500 NO 538.0 04444444 T -0.  
C 1 H 4 B 1 N 1  
Mw 40.87 MI 2.95 MA 0.0759 HD 5.60 EM 3.42 GR 1.54

## N-METHOXYBORAZINE

CA 13. 2460ORGAN. SOLIDEST D 1.0000 NO 539.0 04444444 T -0.  
C 1 H 4 B 1 N 1 U 1  
Mw 56.87 MI 7.86 MA 0.0830 HD 4.24 EM 5.62 GR 5.74

## SILICON BORATE-UNL4 COMPLEX

CA 33. 4000ORGAN. SOLIDCAL D 1.7786 NO2495.0 04444444 T -0.  
C 1 H 4 B 1 N 2 Na 1 O 4  
Mw 141.87 MI 13.09 MA 0.0988 HD 3.02 EM 10.40 GR 7.45

## MONOMETHYLBORINE

NACA N641426ORGAN. LIQUIDEST D 0.5000 NO 540.0 04444444 T -0.  
C 1 H 5 B 1  
Mw 27.87 MI 6.78 MA 0.0733 HD 5.40 EM 5.08 GR 5.44

## BROMON TRICHLORIDE-METHYLAMINE

CA 53. 2010ORGAN. SOLIDCAL D 1.8920 NO2496.0 04444444 T 127.00  
C 1 H 5 B 1 CL 3 N 1  
Mw 148.25 MI 11.45 MA 0.0862 HD 1.76 EM 589.49 GR 443.64

## DIFLUOROMETHYL SILOXYBORINE

CA 52. 18104ORGAN. UNKNOWNCAL D 1.5824 NO2497.0 04444444 T -0.  
C 1 H 5 B 1 F 2 O 1 Si 1  
Mw 104.96 MI 11.61 MA 0.1006 HD 4.33 EM 6.01 GR 5.21

## BROMON TRIFLUORIDE-METHYLAMINE

CA 54. 11032ORGAN. UNKNOWNEST D 1.6500 NO 541.0 04444444 T -3.  
C 1 H 5 B 1 F 3 N 1  
Mw 98.88 MI 11.72 MA 0.1178 HD 5.03 EM 6.38 GR 6.41

## MONOMETHOXYBORINE

CA 13. 2780ORGAN. UNKNOWNEST D 0.7500 NO 542.0 04444444 T -0.  
C 1 H 5 B 1 O 1  
Mw 43.87 MI 7.77 MA 0.1013 HD 6.52 EM 5.08 GR 6.82

## DIHYDROXYMETHYLBORANE

CA 13. 2240ORGAN. SOLIDEST D 1.7000 NO 543.0 04444444 T -0.  
C 1 H 5 B 1 O 2  
Mw 59.87 MI 8.76 MA 0.1058 HD 6.04 EM 5.08 GR 6.13

A 5

METHYLTHIOBORANE POLYMER  
CA 49,10166ORGAN.SOLIDICAL D 1.6370 NO4120.0 04410411 T 69.00  
C 1 M 5 8 1 5 1  
MW 54.93 MI 8.08 MA 0.1329 MD 8.23 EM 5.84 GR 9.80

DICHLORODIMETHYLSILICYLAMINO(BORANE  
BORG132. ORGAN.UNKNOWCAL D 1.7128 NO2498.0 04144444 T -0.  
C 1 M 6 8 1 CL 2 N 151 1  
MW 141.89 MI 12.51 MA 0.0910 MD 4.36 EM 396.56 GR 288.36

METHYLAMINE TETRACHLOROBORATE  
CA 53,13044ORGAN.UNKNOWCAL D 1.8921 NO2499.0 04444444 T -0.  
C 1 M 6 8 1 CL 4 N 1  
MW 184.71 MI 13.65 MA 0.0842 MD 3.70 EM 784.67 GR 484.13

IMETHYLSILICYLAMINODIFLUOROBORANE  
CA 51,1272ORGAN. SOLIDICAL D 1.3950 NO2500.0 04444444 T -0.  
C 1 M 6 8 1 F 2 N 151 1  
MW 108.98 MI 12.59 MA 0.0978 MD 4.63 EM 7.82 GR 6.03

METHYLAMMONIUM TETRAFLUOROBORATE  
CA 50,11245ORGAN. SOLIDICAL D 1.3483 NO2501.0 04444444 T 182.00  
C 1 M 6 8 1 F 4 N 1  
MW 118.89 MI 14.01 MA 0.0937 MD 4.10 EM 7.19 GR 4.91

LITHIUM METHYLTRIMHYDROBORATE  
CA 53,11892ORGAN. SOLIDICAL D 0.8020 NO2494.0 04014411 T -0.  
C 1 M 6 8 1 Li 1  
MW 35.82 MI 8.79 MA 0.1186 MD 8.09 EM 5.89 GR 7.94

N-METHYLTHIOAZINE(METHYLAMINO)BORANE POLYMER  
CA 13, 235ORGAN.POLYMERICAL D 1.0269 NO4121.0 04444444 T -0.  
C 1 M 6 8 1 N 1  
MW 47.89 MI 8.85 MA 0.1274 MD 8.65 EM 6.89 GR 9.94

UXYBORAZINE  
CA 13, 246ORGAN. SOLIDEST D 1.0000 NO 544.0 04444444 T -0.  
C 1 M 6 8 1 N 10 1  
MW 58.89 MI 9.86 MA 0.1007 MD 6.14 EM 6.89 GR 7.05

METHYLAMINO BORANE  
CA 48,12672ORGAN.LIQUIDEST D 1.0000 NO 544.0 04144441 T -0.  
C 1 M 6 8 1 N 10 1  
MW 58.89 MI 9.84 MA 0.1007 MD 6.14 EM 6.89 GR 7.05

BORANE-CYANOSILANE  
CA 54, 2031ORGAN.UNKNOWCAL D 1.1632 NO2507.0 04444441 T -0.  
C 1 M 6 8 1 N 151 1  
MW 70.98 MI 10.11 MA 0.0994 MD 9.92 EM 7.67 GR 7.57

A 7

BORANE-METHYLHYDROXYLAMINE  
CA 50,16504ORGAN. SOLIDEST D 1.0000 NO 550.0 04141441 T -0.  
C 1 M 6 8 1 N 10 1  
MW 60.90 MI 11.84 MA 0.1171 MD 7.91 EM 8.36 GR 8.27

BORANE-N-METHYLHYDROXYLAMINE  
CA 52,16187ORGAN.UNKNOWCAL D 0.8880 NO2507.0 04444444 T -0.  
C 1 M 8 8 1 N 10 1  
MW 80.90 MI 11.94 MA 0.1016 MD 6.87 EM 8.36 GR 7.18

BORANE-METHOXYLAMINE  
CA 52,16187ORGAN. SOLIDICAL D 0.8880 NO2508.0 04144444 T 55.00  
C 1 M 8 8 1 N 10 1  
MW 80.90 MI 11.84 MA 0.1016 MD 6.87 EM 8.36 GR 7.18

BORANE-METHOXYLAMINE  
CA 50,16504ORGAN. SOLIDEST D 1.0000 NO 551.0 04441441 T -0.  
C 1 M 8 8 1 N 10 1  
MW 60.90 MI 11.84 MA 0.1171 MD 7.91 EM 8.36 GR 8.27

METHYLBORONIC ACID-AMMONIA  
CA 13, 246ORGAN. SOLIDEST D 1.0000 NO 552.0 04444444 T -0.  
C 1 M 6 8 1 N 10 2  
MW 76.90 MI 12.83 MA 0.1005 MD 6.27 EM 8.36 GR 6.55

METHYLSILICYLAMINO(BORANE  
NACA . 6440ORGAN.UNKNOWCAL D 1.0449 NO2509.0 04144441 T -0.  
C 1 M 8 8 1 N 151 1  
MW 72.99 MI 12.11 MA 0.1044 MD 6.90 EM 9.14 GR 7.88

SODIUM BOROFUMATE  
CA 35, 4184ORGAN.UNKNOWCAL D 1.5722 NO2510.0 04444444 T -0.  
C 1 M 8 8 1 Na 10 7  
MW 165.89 MI 17.92 MA 0.1023 MD 4.57 EM 11.18 GR 6.38

BORANE-METHYLPHOSPHINE  
CA 47,11088ORGAN. LIQUIDICAL D 0.9969 NO2511.0 04444444 T -49.60  
C 1 M 8 8 1 P 1  
MW 61.87 MI 11.11 MA 0.1078 MD 7.76 EM 9.10 GR 8.83

METHYLDIBORANES  
NACF . 22633ORGAN. GASEST D 0.0019 NO2512.0 04114411 T -0.  
C 1 M 8 8 2  
MW 41.71 MI 10.75 MA 0.0003 MD 0.02 EM 8.67 GR 0.02

METHYLBORONIC ACID-AMMONIA  
CA 13, 246ORGAN. LIQUIDICAL D 1.1223 NO2513.0 04444444 T -101.00  
C 1 M 8 8 2 5 1  
MW 73.77 MI 12.05 MA 0.1104 MD 7.33 EM 9.43 GR 8.66

A 6

METHOXYBORANE POLYMER  
AD252. 0440ORGAN.POLYMERICAL D 1.1150 NO4274.0 04444441 T -0.  
C 1 M 6 8 1 O 1  
MW 44.88 MI 8.77 MA 0.1312 MD 8.98 EM 5.81 GR 8.70

METHYLPHOSPHINOBORANE  
AD142. 0280ORGAN. SOLIDICAL D 1.1353 NO4170.0 04444444 T 86.50  
C 1 M 6 8 1 P 1  
MW 59.85 MI 9.11 MA 0.1041 MD 6.86 EM 7.63 GR 8.72

METHYLPHOSPHINOBORANE POLYMER  
AD142. 0280ORGAN. LIQUIDICAL D 1.4673 NO4242.0 04000410 T -0.  
C 1 M 6 8 1 P 1  
MW 59.85 MI 9.11 MA 0.1345 MD 8.86 EM 7.63 GR 11.27

2,4-DICHLORO-6-METHYLBORAZINE  
PB 1,1782ORGAN.UNKNOWCAL D 1.6386 NO2503.0 04444444 T -0.  
C 1 M 6 8 2 CL 2 N 3  
MW 163.46 MI 15.33 MA 0.0926 MD 3.62 EM 400.72 GR 241.96

METHYLBORANE-BERYLLIUM HYDRIDE  
CA 35, 997ORGAN. SOLIDICAL D 0.7646 NO2504.0 04111411 T -0.  
C 1 M 7 8 1 BE 1  
MW 38.90 MI 9.85 MA 0.1166 MD 8.24 EM 6.61 GR 7.82

N-METHYL-B-MONOCHELOBORAZANE  
CA 55, 4343ORGAN. SOLIDICAL D 1.1803 NO2505.0 04444444 T 67.00  
C 1 M 7 8 1 CL 1 N 1  
MW 79.35 MI 11.05 MA 0.0990 MD 6.27 EM 202.07 GR 181.04

BORANE-DIFLUOROMETHYLAMINO(PHOSPHINE  
AD240. 912ORGAN.UNKNOWCAL D 1.3999 NO4437.0 04444444 T -0.  
C 1 M 7 8 1 F 2 N 1 P 1  
MW 112.87 MI 13.76 MA 0.1028 MD 5.23 EM 9.59 GR 7.17

CARBON MONOXIDE(C-BITRIBORANE  
CA 22342ORGAN.UNKNOWCAL D 1.1233 NO2506.0 04444444 T -0.  
C 1 M 7 8 3 O 1  
MW 87.53 MI 11.71 MA 0.1173 MD 7.01 EM 9.33 GR 9.35

BORANE-METHYLAMINE  
CA 13, 235ORGAN.LIQUIDEST D 0.9500 NO 548.0 04140411 T -0.  
C 1 M 8 8 1 N 1  
MW 44.90 MI 10.85 MA 0.1183 MD 10.19 EM 8.36 GR 10.65

METHYLBORANE-AMMONIA  
CA 13, 235ORGAN. SOLIDEST D 0.9500 NO 549.0 04440411 T -0.  
C 1 M 8 8 1 N 1  
MW 44.90 MI 10.85 MA 0.1183 MD 10.19 EM 8.36 GR 10.65

A 8

B-METHYLBORAZINE  
CA 13, 242ORGAN.LIQUIDEST D 0.8500 NO 553.0 04444444 T -59.00  
C 1 M 8 8 3 N 3  
MW 94.56 MI 14.93 MA 0.0808 MD 4.33 EM 13.30 GR 7.20

N-METHYLBORAZINE  
CA 13, 243ORGAN.LIQUIDEST D 0.8500 NO 554.0 04444444 T -0.  
C 1 M 8 8 3 N 3  
MW 94.56 MI 14.93 MA 0.0808 MD 4.33 EM 13.30 GR 7.20

HEXAFLUORO-METHYL-S-TRIAZATRIBORINE  
CA 32, 6570ORGAN.UNKNOWEST D 0.8500 NO 555.0 04444444 T -0.  
C 1 M 6 8 5 N 3  
MW 94.56 MI 14.93 MA 0.0808 MD 4.33 EM 13.30 GR 7.20

HCROX HYDRIDE-CARBON MONOXIDE  
CA 53, 2135ORGAN.LIQUIDICAL D 1.1523 NO2514.0 04444444 T -114.50  
C 1 M 8 8 4 O 1  
MW 79.35 MI 13.68 MA 0.1196 MD 7.00 EM 11.45 GR 10.02

METHYLSILYLAMINO(BORON TRIFLUORIDE  
CA 51, 1272ORGAN.UNKNOWCAL D 1.4891 NO2515.0 04444444 T -0.  
C 1 M 9 8 1 F 3 N 151 2  
MW 159.09 MI 18.24 MA 0.1028 MD 5.07 EM 10.88 GR 6.13

BORANE-METHYLENEAMINE  
CPAC 161. ORGAN.UNKNOWEST D 1.0500 NO 556.0 04444444 T -0.  
C 1 M 9 8 1 N 2  
MW 59.92 MI 12.92 MA 0.1364 MD 9.50 EM 10.17 GR 10.73

METHYLBORONIC ACID-AMMONIA  
CA 13, 246ORGAN.LIQUIDEST D 0.6000 NO 558.0 04144441 T -0.  
C 1 M 9 8 2 N 1  
MW 56.73 MI 12.82 MA 0.0817 MD 5.73 EM 10.48 GR 6.68

BORANE-CARBON MONOXIDE-BISAMMONIA  
CA 13, 1000ORGAN.UNKNOWEST D 1.1000 NO 557.0 04444444 T -0.  
C 1 M 9 8 1 N 2 O 1  
MW 75.92 MI 13.91 MA 0.1214 MD 7.85 EM 10.17 GR 8.88

METHYLBORONIC ACID-AMMONIA  
CA 54, 13575ORGAN.UNKNOWCAL D 0.4559 NO2516.0 04414411 T -0.  
C 1 M 10 8 1 N 1  
MW 46.92 MI 12.85 MA 0.0752 MD 5.85 EM 9.82 GR 5.75

METHYLBORONIC ACID-AMMONIA  
CA 52, 1184ORGAN.UNKNOWCAL D 1.0719 NO2517.0 04444444 T -0.  
C 1 M 11 8 1 N 2  
MW 71.72 MI 15.06 MA 0.1356 MD 9.90 EM 12.87 GR 11.58

A 9

## METHYLALUMINUM BIS(TETRAMYDORBORATE)

NACF 1.243 ORGAN. UNKNOWNCAL D 0.7275 NO2484.0 04444444 T -0.  
 C 1 H 11.8 2 1 1 1 1 1  
 MW 71.72 MI 15.06 MA 0.0920 HD 6.72 EM 12.87 GR 7.86

## METHYLSILICOLANODIBORANE

NACF 2.286 ORGAN. LIQUIDCAL D 1.0470 NO2518.0 04144411 T -39.00  
 C 1 H 11.8 2 1 1 1 1 1  
 MW 86.84 MI 16.08 MA 0.1168 HD 7.99 EM 12.73 GR 9.24

## 1-METHYLPENTABORANE

CA 53.1956 ORGAN. LIQUIDCAL D 1.0193 NO2519.0 04114411 T -0.  
 C 1 H 11.8 5  
 MW 77.20 MI 16.66 MA 0.1325 HD 8.75 EM 15.05 GR 11.97

## DIBORANE-ETHYLHYDROXALINE

NACF 1.49416 ORGAN. UNKNOWNCAL D 0.9003 NO 560.0 04444411 T -0.  
 C 1 H 12.8 2 1 1 1 1 1  
 MW 74.76 MI 16.89 MA 0.1241 HD 8.82 EM 13.76 GR 10.11

## BORANE-CARBON MONOXIDE-BIS(METHYLAMINE)

AD240. 912 ORGAN. UNKNOWNCAL D 0.7969 NO4438.0 04444444 T -0.  
 C 1 H 13.0 1 N 2.0 1  
 MW 79.45 MI 17.91 MA 0.1075 HD 7.81 EM 13.11 GR 7.87

## METHOXYDECANORANE

CA 54.1081 ORGAN. LIQUIDCAL D 1.2501 NO2520.0 04114411 T -0.  
 C 1 H 16.8 10 0 1  
 MW 152.36 MI 27.50 MA 0.1359 HD 7.91 EM 25.67 GR 12.63

## BORON TRIFLUORIDE-TRICHLOROACETALDEHYDE

GM 13. 180 ORGAN. UNKNOWNCAL D 1.7191 NO2521.0 04444444 T -0.  
 C 2 H 3.8 1 1 1 1 1  
 MW 215.22 MI 12.05 MA 0.0580 HD 0.41 EM 585.72 GR 211.80

## BORON TRIFLUORIDE-ACETYL FLUORIDE

CA 51. 350 ORGAN. UNKNOWNCAL D 1.4322 NO2522.0 04444444 T -0.  
 C 2 H 2.8 1 1 1 1 1  
 MW 164.31 MI 11.94 MA 0.0627 HD 1.05 EM 197.64 GR 103.76

## DICHLORODI(2-CHLOROVINYLBORINE)

CA 46. 279 ORGAN. LIQUIDCAL D 1.1045 NO 143.0 04444444 T -0.  
 C 2 H 2.8 1 1 1 1 1  
 MW 143.23 MI 8.14 MA 0.0449 HD 1.10 EM 546.73 GR 321.00

## DICHLORODI(2,2,2-TRICHLOROETHYL)BORINE

CA 42. 195 ORGAN. UNKNOWNCAL D 1.7745 NO2521.0 04444444 T -0.  
 C 2 H 2.8 1 1 1 1 1  
 MW 210.14 MI 11.58 MA 0.0531 HD 0.43 EM 975.12 GR 452.87

A 11

## BORON TRIFLUORIDE-METHYL CYANIDE

GM 13. 170 ORGAN. SOLIDCAL D 1.5700 NO 145.0 04144444 T 135.50  
 C 2 H 3.8 1 1 1 1 1  
 MW 108.87 MI 10.53 MA 0.0976 HD 2.64 EM 4.91 GR 4.33

## ACETYL FLUORIDE

GM 13. 180 ORGAN. LIQUIDCAL D 1.3644 NO2530.0 04444444 T 20.00  
 C 2 H 3.8 1 1 1 1 1  
 MW 129.07 MI 11.74 MA 0.0746 HD 1.91 EM 3.92 GR 2.49

## BORANE-BIS(TRIFLUOROMETHYL)PHOSPHINUS FLUORIDE

CA 52.1646 ORGAN. UNKNOWNCAL D 1.5352 NO2531.0 04444444 T -0.  
 C 2 H 3.8 1 1 1 1 1  
 MW 201.84 MI 15.95 MA 0.0731 HD 1.37 EM 5.97 GR 2.71

## ETHYNYLDIBORANE

AC5132. 70 ORGAN. UNKNOWNCAL D 1.1000 NO 561.0 04444444 T -0.  
 C 2 H 3.8 1 1 1 1 1  
 MW 69.87 MI 7.57 MA 0.0718 HD 2.85 EM 3.63 GR 3.44

## 2-CHLORO-1,3,2-DIOXABOROLANE

CA 52. 647 ORGAN. SOLIDCAL D 1.1000 NO 562.0 04444444 T 128.50  
 C 2 H 4.8 1 1 1 1 1  
 MW 106.33 MI 9.77 MA 0.0669 HD 2.49 EM 198.81 GR 123.88

## 2-CHLORO-1,3,2-DITHIOBOROLANE

CA 52.1638 ORGAN. UNKNOWNCAL D 1.7250 NO2532.0 04444444 T -0.  
 C 2 H 4.8 1 1 1 1 1  
 MW 138.45 MI 10.39 MA 0.0780 HD 3.00 EM 200.32 GR 150.36

## BORON TRICHLORIDE-ETHYLENE OXIDE

CA 48. 247 ORGAN. LIQUIDCAL D 1.4000 NO 563.0 04444444 T -0.  
 C 2 H 4.8 1 1 1 1 1  
 MW 161.24 MI 11.18 MA 0.0585 HD 2.09 EM 587.70 GR 307.35

## DICHLORODI(2-CHLOROMETHOXY)BORINE

CA 50. 772 ORGAN. LIQUIDCAL D 1.4000 NO 146.0 04444444 T -0.  
 C 2 H 4.8 1 1 1 1 1  
 MW 161.24 MI 11.18 MA 0.0585 HD 2.09 EM 587.70 GR 307.35

## BORON TRICHLORIDE-ACETYL FLUORIDE

CA 50.1277 ORGAN. LIQUIDCAL D 1.8278 NO2533.0 04144441 T -54.00  
 C 2 H 4.8 1 1 1 1 1  
 MW 146.70 MI 12.38 MA 0.0693 HD 2.24 EM 782.14 GR 437.76

## BORON TRICHLORIDE-ACETIC ACID

CA 40. 242 ORGAN. SOLIDCAL D 1.4700 NO 66.0 04444444 T 37.50  
 C 2 H 4.8 1 1 1 1 1  
 MW 127.87 MI 12.44 MA 0.0861 HD 2.77 EM 4.58 GR 3.17

A 10

## BIS(TRIFLUOROMETHYL)PHOSPHINOBORANE

AD142. 028 ORGAN. SOLIDCAL D 1.4473 NO4171.0 04444444 T 23.20  
 C 2 H 2.8 1 1 1 1 1  
 MW 181.83 MI 13.66 MA 0.0655 HD 0.96 EM 9.16 GR 2.47

## 1,2-BIS(DICHLOROBORYL)ETHYLENE

PB 1.22939 ORGAN. LIQUIDCAL D 1.8058 NO2524.0 04444444 T -127.50  
 C 2 H 2.8 2 1 1 1 1  
 MW 189.51 MI 10.36 MA 0.0595 HD 1.15 EM 782.07 GR 448.87

## ETHYLENE BIS(DICHLOROBORINE)

AD139. 737 ORGAN. UNKNOWNCAL D 1.8058 NO4382.0 04444444 T -0.  
 C 2 H 2.8 2 1 1 1 1  
 MW 189.51 MI 10.36 MA 0.0595 HD 1.15 EM 782.07 GR 448.87

## ETHYLENE DIBORON TETRACHLORIDE

AD 46. 706 ORGAN. UNKNOWNCAL D 1.8058 NO4383.0 04444444 T -0.  
 C 2 H 2.8 2 1 1 1 1  
 MW 189.51 MI 10.36 MA 0.0595 HD 1.15 EM 782.07 GR 448.87

## 1,2-BIS(DI)FLUOROBORYLETHYLENE

NACF 4.4416 ORGAN. UNKNOWNCAL D 1.3745 NO2525.0 04444444 T -82.20  
 C 2 H 2.8 2 1 1 1 1  
 MW 123.68 MI 10.72 MA 0.0718 HD 1.34 EM 4.58 GR 3.07

## BORON TRIFLUORIDE-ACETYLCHLORIDE

GM 13. 180 ORGAN. LIQUIDCAL D 1.4912 NO2526.0 04444444 T -70.00  
 C 2 H 3.8 1 1 1 1 1  
 MW 146.32 MI 11.65 MA 0.0719 HD 1.84 EM 198.29 GR 121.73

## VINYLBORON DICHLORIDE

CA 54.2439 ORGAN. UNKNOWNCAL D 1.6142 NO2527.0 04444444 T -0.  
 C 2 H 3.8 1 1 1 1 1  
 MW 108.78 MI 7.49 MA 0.0714 HD 2.68 EM 392.52 GR 350.83

## BORON TRICHLORIDE-METHYL CYANIDE

GM 13. 200 ORGAN. SOLIDCAL D 1.6030 NO 144.0 04444444 T -0.  
 C 2 H 3.8 1 1 1 1 1  
 MW 158.24 MI 10.26 MA 0.0626 HD 1.83 EM 588.04 GR 358.80

## BORON TRICHLORIDE-ACETYLCHLORIDE

GM 13. 200 ORGAN. LIQUIDCAL D 1.8124 NO2528.0 04444444 T -60.00  
 C 2 H 3.8 1 1 1 1 1  
 MW 195.69 MI 11.38 MA 0.0635 HD 1.67 EM 781.41 GR 435.81

## DIFLUOROVINYLBORINE

CA 52.1915 ORGAN. UNKNOWNCAL D 1.2474 NO2529.0 04444444 T -0.  
 C 2 H 3.8 1 1 1 1 1  
 MW 75.87 MI 8.17 MA 0.0809 HD 2.97 EM 3.77 GR 3.74

A 12

## BORON TRIFLUORIDE-ETHYLENE OXIDE

CA 52.1937 ORGAN. UNKNOWNCAL D 1.8210 NO2534.0 04144444 T -0.  
 C 2 H 4.8 1 1 1 1 1  
 MW 111.87 MI 11.45 MA 0.0815 HD 2.85 EM 4.58 GR 3.26

## METHYL FORMATE-BORON TRIFLUORIDE

CA 26. 403 ORGAN. SOLIDCAL D 1.4180 NO 401.0 04444444 T 23.50  
 C 2 H 4.8 1 1 1 1 1  
 MW 127.07 MI 12.44 MA 0.0831 HD 2.67 EM 4.58 GR 3.06

## LITHIUMETHYLENETHYLTHIOURATE

CA 53. 492 ORGAN. UNKNOWNCAL D 1.2958 NO2535.0 04444444 T -0.  
 C 2 H 4.8 1 1 1 1 1  
 MW 109.81 MI 11.56 MA 0.0822 HD 2.84 EM 4.44 GR 3.16

## SODIUM FORMETHOXYBORATE

CA 53.1060 ORGAN. UNKNOWNCAL D 1.3630 NO2536.0 04444444 T -0.  
 C 2 H 4.8 1 1 1 1 1  
 MW 129.80 MI 11.76 MA 0.0768 HD 2.61 EM 8.26 GR 5.14

## BIS(METHYLENETHYL)GLYCOLBORATE POLYMER

CA 46.1285 ORGAN. POLYMERICAL D 1.7438 NO4306.0 04144441 T -0.  
 C 2 H 4.8 1 1 1 1 1  
 MW 102.87 MI 10.55 MA 0.1077 HD 4.08 EM 4.37 GR 4.46

## ETHYLENEBIS(DICHLOROBORINE)

CA 49.1227 ORGAN. LIQUIDCAL D 1.8851 NO2537.0 04444444 T -28.50  
 C 2 H 4.8 2 1 1 1 1  
 MW 191.52 MI 12.36 MA 0.0733 HD 2.37 EM 783.53 GR 464.53

## DIBORON TETRACHLORIDE-ETHYLENE

PB 1.1142 ORGAN. UNKNOWNCAL D 1.5193 NO2538.0 04444444 T -28.50  
 C 2 H 4.8 2 1 1 1 1  
 MW 191.52 MI 12.36 MA 0.0491 HD 1.91 EM 783.53 GR 374.40

## 1,2-DICHLOROBORYLETHYLENE

CA 54.1725 ORGAN. UNKNOWNCAL D 1.4462 NO2539.0 04444444 T -0.  
 C 2 H 4.8 2 1 1 1 1  
 MW 223.52 MI 14.34 MA 0.0578 HD 1.61 EM 783.54 GR 315.92

## 1,2-BIS(DI)FLUOROBORYLETHYLENE

PB 1.22939 ORGAN. LIQUIDCAL D 1.4018 NO2540.0 04444444 T -31.50  
 C 2 H 4.8 2 1 1 1 1  
 MW 125.69 MI 12.72 MA 0.0856 HD 2.69 EM 6.05 GR 4.07

## DICHLORODIETHYLBORINE

CA 54. 800 ORGAN. LIQUIDCAL D 1.0500 NO 564.0 04444444 T -0.  
 C 2 H 5.8 1 1 1 1 1  
 MW 110.80 MI 9.49 MA 0.0570 HD 2.85 EM 373.98 GR 724.90

A 13

## DICHLOOROETHOXYBORINE

CA 51. 9475ORGAN.LIQUIDAND D 1.1250 ND 147.0 04444444 T -0.  
C 2 H 5 B ICL 2 0  
MW 126.80 MI 10.98 MA 0.0587 MD 2.67 EM 393.99 GR 210.56

## DICHLOOROETHYLTHIOBORANE

CA 53.2080ORGAN.UNKNOWCAL D 1.6675 ND2541.0 04444444 T -0.  
C 2 H 5 B ICL 2 5 1  
MW 142.86 MI 11.29 MA 0.0794 MD 3.52 EM 394.74 GR 277.54

## N-METHYLFORMAMIDE-BORON TRIFLUORIDE

CA 54.1814ORGAN.LIQUIDAL D 1.6370 ND2542.0 04444444 T -0.  
C 2 H 5 B ICL 3 N 1 0 1  
MW 176.26 MI 13.25 MA 0.0741 MD 2.80 EM 589.51 GR 329.77

## BORON TRIFLUORIDE-ACETAMIDE

CA 54.1814ORGAN. SOLIDAL D 1.6370 ND2543.0 04444444 T 76.00  
C 2 H 5 B ICL 3 N 1 0 1  
MW 176.26 MI 13.25 MA 0.0741 MD 2.80 EM 589.51 GR 329.77

## BORON TRICHLORIDE-ETHYL CHLORIDE

GM 13. 2020ORGAN.UNKNOWCAL D 1.8043 ND2544.0 04444444 T -0.  
C 2 H 5 B ICL 1  
MW 181.71 MI 12.39 MA 0.0741 MD 2.99 EM 782.88 GR 468.23

## BORON TRICHLORIDE-CHLOROMETHYL METHYL ETHER

CA 51. 9475ORGAN.LIQUIDAL D 1.8042 ND2545.0 04444444 T 15.00  
C 2 H 5 B ICL 4 0 1  
MW 197.71 MI 13.38 MA 0.0735 MD 2.73 EM 782.88 GR 430.31

## ETHYLDIPLUOROBORANE

CA 50.1666ORGAN. LIQUIDEST D 0.9000 ND 365.0 04444444 T -101.00  
C 2 H 5 B 1 F 2  
MW 77.88 MI 10.17 MA 0.0708 MD 3.48 EM 5.24 GR 3.69

## ETHOXYDIPLUOROBORANE

GM 13. 2490ORGAN.UNKNOWEST D 1.3000 ND 366.0 04444444 T 23.00  
C 2 H 5 B 1 F 2 0 1  
MW 93.88 MI 11.16 MA 0.0931 MD 4.17 EM 5.24 GR 4.37

## BORON TRIFLUORIDE-PYRIDINE

GM 13. 1780ORGAN. SOLIDEST D 1.6000 ND 365.0 04444444 T 45.00  
C 2 H 5 B 1 F 3 N  
MW 110.69 MI 12.53 MA 0.1089 MD 4.35 EM 6.39 GR 5.56

## BORON TRIFLUORIDE-ACETYLAMINE

NACN 36247ORGAN. SOLIDAL D 1.2794 ND2546.0 04114441 T 48.00  
C 2 H 5 B 1 F 3 N 1 0 1  
MW 126.89 MI 13.52 MA 0.0821 MD 3.04 EM 6.40 GR 3.89

A 15

## CHLORODIMETHOXYBORINE

GM 13. 2490ORGAN.LIQUIDEST D 1.0000 ND 572.0 04444444 T -87.50  
C 2 H 6 B ICL 1 0 2  
MW 108.35 MI 11.77 MA 0.0634 MD 3.34 EM 700.28 GR 111.34

## CHLORODIMETHYLTHIOBORANE

CA 53.2080ORGAN.UNKNOWCAL D 1.6164 ND2550.0 04444444 T -0.  
C 2 H 6 B ICL 1 5 2  
MW 140.47 MI 12.39 MA 0.0899 MD 4.16 EM 201.79 GR 139.87

## DICHLOORODIMETHYLAMINOBORINE

CA 27. 4750ORGAN. SOLIDAL D 1.4185 ND2551.0 04404444 T 142.00  
C 2 H 6 B ICL 2 4 1  
MW 129.81 MI 12.06 MA 0.0819 MD 4.07 EM 395.80 GR 268.80

## DICHLOORODIMETHYLAMINOBORINE

GM 13. 2920ORGAN.LIQUIDAL D 1.4185 ND2552.0 04414444 T -46.00  
C 2 H 6 B ICL 2 N 1  
MW 129.81 MI 12.06 MA 0.0819 MD 4.07 EM 395.80 GR 268.80

## DIMETHYLPHOSPHINODICHLOROBORINE

AD142. 0280ORGAN. SOLIDAL D 1.6362 ND4173.0 04444444 T 377.00  
C 2 H 6 B ICL 2 P 1  
MW 142.78 MI 12.32 MA 0.0890 MD 4.14 EM 396.54 GR 273.72

## BORON TRICHLORIDE-DIMETHYL ETHER

GM 13. 3010ORGAN.UNKNOWEST D 1.3603 ND 573.0 04444444 T -0.  
C 2 H 6 B ICL 3 0 1  
MW 163.26 MI 13.18 MA 0.0861 MD 3.01 EM 589.17 GR 295.62

## DICHLOOROETHOXYDIETHYLTHIOBORANE

CA 52.1173ORGAN.UNKNOWCAL D 1.1999 ND 395.0 04444444 T -0.  
C 2 H 6 B ICL 3 0 1 1  
MW 191.35 MI 14.44 MA 0.0943 MD 2.27 EM 589.95 GR 222.83

## DIMETHYLBORONIC ACID-D

CA 52.1551ORGAN.UNKNOWCAL D 0.8498 ND2553.0 04444444 T -0.  
C 2 H 6 B 1 0 1 0 1  
MW 98.90 MI 10.86 MA 0.0909 MD 6.08 EM 5.83 GR 3.06

## DIMETHOXYBORINE-D

CA 53.2161ORGAN.UNKNOWCAL D 0.9639 ND2554.0 04444444 T -0.  
C 2 H 6 B 1 0 1 0 2  
MW 74.90 MI 11.45 MA 0.0887 MD 5.43 EM 5.83 GR 4.52

## DIEUTERO-DIMETHYLAMINOBORINE

CA 48. 1247ORGAN. SOLIDAL D 0.7433 ND2555.0 04444444 T 76.40  
C 2 H 6 B 1 D 2 N 1  
MW 58.93 MI 11.42 MA 0.0888 MD 6.08 EM 6.91 GR 5.25

A 14

## BORON TRIFLUORIDE-FLUOROETHANE

CA 53.1375ORGAN.UNKNOWCAL D 1.2972 ND2547.0 04444444 T -0.  
C 2 H 5 B 1 0 2  
MW 115.88 MI 12.75 MA 0.0860 MD 3.37 EM 5.39 GR 3.63

## ETHYL METABORATE

CA 53. 8610ORGAN.UNKNOWEST D 0.9000 ND 618.0 04444444 T -0.  
C 2 H 5 B 1 0 2  
MW 71.88 MI 9.57 MA 0.0722 MD 1.77 EM 5.10 GR 3.84

## 1,3,2-DIOXABOROLANE

CA 47. 9685ORGAN.UNKNOWEST D 1.2000 ND 740.0 04444444 T -0.  
C 2 H 5 B 1 0 2  
MW 71.88 MI 9.57 MA 0.0962 MD 5.03 EM 5.10 GR 5.12

## GLYCOL BORATE

CA 52. 4472ORGAN. SOLIDEST U 1.0000 ND 369.0 04444444 T 116.00  
C 2 H 5 B 1 0 3  
MW 87.88 MI 10.56 MA 0.0724 MD 3.43 EM 5.10 GR 3.49

## ETHYLENE BORATE

CA 52. 4472ORGAN. SOLIDEST D 1.0000 ND 570.0 04444444 T 116.00  
C 2 H 5 B 1 0 3  
MW 87.88 MI 10.56 MA 0.0724 MD 3.43 EM 5.10 GR 3.49

## BORON TRICHLORIDE-CHLOROETHANE

GM 13. 2020ORGAN.LIQUIDAL D 2.0855 ND2548.0 04444444 T -115.80  
C 2 H 5 B 2 CL 7  
MW 298.90 MI 16.96 MA 0.0713 MD 2.10 EM1367.61 GR 574.75

## TRIMORADIMETHYNE

AD261. 0970ORGAN.UNKNOWCAL D 1.1283 ND4172.0 04444444 T -0.  
C 2 H 5 B 3  
MW 81.92 MI 9.53 MA 0.1053 MD 5.52 EM 7.88 GR 8.70

## CHLORODIMETHYLBORANE

CA 52.1681ORGAN.UNKNOWEST D 0.9500 ND 371.0 04444444 T -0.  
C 2 H 6 B ICL 1  
MW 76.33 MI 9.79 MA 0.0734 MD 4.50 EM 200.27 GR 150.10

## DIMETHYLCHLOROBORANE

GM 13. 2670ORGAN. GASEST D 0.0034 ND 627.0 04141441 T -0.  
C 2 H 6 B ICL 1  
MW 76.33 MI 9.79 MA 0.0003 MD 0.02 EM 200.27 GR 0.34

## 2-CHLORO-TETRAHYDRO-1,3,2-DIAZABOROLINE

AD256. 4200ORGAN.LIQUIDAL D 1.2011 ND4439.0 04444444 T -0.  
C 2 H 6 B ICL 1 N 2  
MW 104.36 MI 11.93 MA 0.0827 MD 4.16 EM 202.43 GR 140.33

A 16

## BORON TRIDEUTERIO-DIMETHYL ETHER

NACF 26. 2880ORGAN.UNKNOWCAL D 0.7423 ND2556.0 04444444 T -0.  
C 2 H 6 B 1 0 2 1  
MW 62.03 MI 12.22 MA 0.0868 MD 6.39 EM 5.83 GR 4.14

## FLUORODIMETHYLBORANE

CA 53. 4177ORGAN.LIQUIDEST D 0.8500 ND 576.0 04444444 T -147.40  
C 2 H 6 B 1 F 1  
MW 90.89 MI 9.88 MA 0.0845 MD 5.13 EM 5.90 GR 9.04

## DIMETHYLFLUOROBORONATE

GM 13. 2490ORGAN.LIQUIDAND D 1.1000 ND 148.0 04114141 T -0.  
C 2 H 6 B 1 F 1 0 2  
MW 91.89 MI 11.86 MA 0.0895 MD 4.33 EM 5.90 GR 4.26

## DIMETHYLAMINO-DIPLUOROBORINE

NACN 27730ORGAN. SOLIDAL D 1.1151 ND2557.0 04014444 T 166.50  
C 2 H 6 B 1 F 2 N 1  
MW 92.90 MI 12.24 MA 0.0885 MD 4.34 EM 7.05 GR 5.10

## DIMETHYLPHOSPHINODIFLUOROBORINE

AD142. 0280ORGAN. SOLIDAL D 1.3419 ND4174.0 04444444 T 127.50  
C 2 H 6 B 1 F 2 P 1  
MW 109.86 MI 12.50 MA 0.0920 MD 4.41 EM 7.80 GR 5.74

## BORON TRIFLUORIDE-ETHANOL

CA 53. 1919ORGAN.UNKNOWCAL D 1.2720 ND 67.0 04440444 T -0.  
C 2 H 6 B 1 F 3 0 1  
MW 113.89 MI 13.45 MA 0.0905 MD 4.04 EM 6.05 GR 4.07

## BORON TRIFLUORIDE-ETHANOL

CA 47. 9127ORGAN.LIQUIDEST D 1.2700 ND 375.0 04444444 T -0.  
C 2 H 6 B 1 F 3 0 1  
MW 113.89 MI 13.45 MA 0.0903 MD 4.03 EM 6.05 GR 4.06

## BORON TRIFLUORIDE-METHYL ETHER

PD 96992ORGAN.LIQUIDAND D 1.5720 ND 149.0 04444444 T -0.  
C 2 H 6 B 1 F 3 0 1  
MW 113.89 MI 13.45 MA 0.1118 MD 4.99 EM 6.05 GR 5.01

## BORON TRIFLUORIDE-DIMETHYL SULFIDE

CA 53.2131ORGAN.UNKNOWCAL D 1.3964 ND4276.0 04444444 T -0.  
C 2 H 6 B 1 F 3 S 1  
MW 129.95 MI 13.76 MA 0.0891 MD 3.88 EM 6.81 GR 6.41

## DIMETHOXYPHOSPHINOTETRAFLUOROBORATE

AD252. 0940ORGAN.UNKNOWCAL D 1.5221 ND4253.0 04444444 T -0.  
C 2 H 6 B 1 F 4 0 2 P 1  
MW 179.86 MI 17.06 MA 0.0870 MD 3.06 EM 7.95 GR 4.05

A 17

## METHYLANINOMETHYL BORANE

GR 13. 2410ORGAN, UNKNOWNEST D 0.8500 NO 576.0 04444444 T -0.  
C 2 H 8 B 1 N 1  
MW 54.90 MI 9.06 MA 0.0901 MD 5.60 EM 6.91 GR 6.44

## SODIUM DIMETHYLBORATE

NACN 22342ORGAN, UNKNOWNCAL D 1.1239 NO2558.0 04444444 T -0.  
C 2 H 8 B 1 NA 1  
MW 63.86 MI 9.80 MA 0.1039 MD 6.36 EM 9.72 GR 10.30

## SODIUM ACETOXYMETHYLBORATE

CA 55. 3416ORGAN, SOLIDCAL D 1.3964 NO2559.0 04444444 T -0.  
C 2 H 8 B 1 NA 1  
MW 95.88 MI 11.78 MA 0.1004 MD 5.11 EM 9.72 GR 8.29

## PHOSPHINOSILYL-DIMETHYLBORINE

AD252. 0940ORGAN, UNKNOWNCAL D 1.4197 NO2454.0 04444444 T -0.  
C 2 H 8 B 1 P 1 SI 1  
MW 99.95 MI 11.18 MA 0.0956 MD 5.13 EM 8.43 GR 7.21

## DIBORON TETRACHLORIDE-DIMETHYL ETHER

CA 44. 8277ORGAN, LIQUIDCAL D 1.8323 NO2560.0 04444444 T -0.  
C 2 H 8 B 2 CL 4  
MW 209.54 MI 15.35 MA 0.0808 MD 3.16 EM 785.00 GR 413.46

## DIBORON TETRACHLORIDE-DIMETHYL SULFIDE

CA 53. 19660ORGAN, LIQUIDCAL D 1.9348 NO2561.0 04114444 T -0.  
C 2 H 8 B 2 CL 4 S 1  
MW 225.80 MI 15.66 MA 0.0809 MD 3.10 EM 785.76 GR 405.91

## DIMETHYLAMINODIBORANE-PENTADECADECYL

NACF 2. 2860ORGAN, LIQUIDCAL D 0.7184 NO2562.0 04444444 T -57.00  
C 2 H 8 B 2 O 5 N 1  
MW 75.79 MI 15.03 MA 0.0858 MD 6.28 EM 8.30 GR 4.74

## BIS-DIFLUOROMETHYLDIHYDROBORINE

CA 54. 1070ORGAN, UNKNOWNCAL D 1.4267 NO2563.0 04444444 T -0.  
C 2 H 8 B 2 F 4 O 2  
MW 194.71 MI 16.70 MA 0.0895 MD 3.23 EM 7.52 GR 4.04

## ETHYLENE-DIAMINE DIBORANE

CA 54. 8395ORGAN, UNKNOWNEST D 0.8700 NO 577.0 04444444 T -0.  
C 2 H 8 B 2 N 2  
MW 79.73 MI 11.70 MA 0.0769 MD 3.94 EM 4.38 GR 6.16

## DIMETHYLAMINODIBORANE

CA 47. 1195ORGAN, UNKNOWNCAL D 1.3102 NO2564.0 04444444 T -0.  
C 2 H 8 B 2 N 1  
MW 126.94 MI 14.57 MA 0.0923 MD 5.80 EM 9.69 GR 8.14

A 19

## LITHIUM DIMETHYLBOROHYDRATE

NACN 20303ORGAN, UNKNOWNCAL D 0.9526 NO2570.0 04444444 T -0.  
C 2 H 7 B 1 LI 2  
MW 55.78 MI 11.01 MA 0.1194 MD 7.20 EM 6.72 GR 6.91

## SODIUM DIMETHYLBOROHYDRATE

NACF 2. 2850ORGAN, UNKNOWNCAL D 1.2688 NO2571.0 04444444 T -0.  
C 2 H 7 B 1 NA 2  
MW 87.86 MI 12.01 MA 0.1054 MD 6.57 EM 14.35 GR 12.88

## DIMETHYLBORONIC ACID

CA 13. 2277ORGAN, LIQUIDEST D 0.8100 NO 582.0 04144414 T -130.60  
C 2 H 7 B 1 O 1  
MW 57.90 MI 10.58 MA 0.0892 MD 5.90 EM 6.94 GR 5.53

## DIMETHYLBORANE

NACC 2491990ORGAN, UNKNOWNEST D 0.9000 NO 583.0 04444444 T -0.  
C 2 H 7 B 1 O 2  
MW 73.90 MI 11.37 MA 0.0849 MD 5.14 EM 6.94 GR 4.81

## ETHYLDIMETHYLBORANE

JACS 79. 5179ORGAN, SOLIDEST D 1.0500 NO 584.0 04444444 T 166.50  
C 2 H 7 B 1  
MW 73.90 MI 11.37 MA 0.0990 MD 5.99 EM 6.94 GR 5.62

## DIMETHYLBORYL HYDROSULFIDE

ONRN 64. 2380ORGAN, UNKNOWNEST D 0.8500 NO 585.0 04444444 T -0.  
C 2 H 7 B 1 S 1  
MW 73.96 MI 10.89 MA 0.0794 MD 4.85 EM 7.32 GR 5.07

## MONOCHLOROBORANE-DIMETHYL ETHER

CA 53. 7891ORGAN, LIQUIDEST D 1.1500 NO 586.0 04444444 T -20.50  
C 2 H 8 B 1 CL 1 O 1  
MW 94.36 MI 12.78 MA 0.0938 MD 5.87 EM 201.74 GR 148.09

## METHYLDICHLOROBORANE

GR 13. 2920ORGAN, SOLIDEST D 1.2000 NO 587.0 04444444 T -0.  
C 2 H 8 B 1 CL 2 N 1  
MW 127.83 MI 14.06 MA 0.0795 MD 4.52 EM 397.27 GR 224.63

## DIMETHYLAMINE TETRACHLOROBORATE

CA 54. 17132ORGAN, UNKNOWNCAL D 1.7594 NO2572.0 04444444 T -0.  
C 2 H 8 B 1 CL 4 N 1  
MW 198.74 MI 14.46 MA 0.0878 MD 4.27 EM 786.16 GR 419.21

## METHYLDIFLUOROBORANE-METHYLAMINE

CA 46. 3443ORGAN, SOLIDCAL D 1.0984 NO2573.0 04444444 T 58.00  
C 2 H 8 B 1 F 2 N 1  
MW 94.912 MI 14.28 MA 0.0992 MD 5.58 EM 8.52 GR 5.94

A 18

## TETRABORADIMETHYNE

AD263. 0970ORGAN, UNKNOWNCAL D 1.1785 NO2555.0 04444440 T -0.  
C 2 H 8 B 4  
MW 73.35 MI 11.50 MA 0.1113 MD 5.81 EM 10.00 GR 9.68

## DIMETHYLBORANE

GR 13. 2200ORGAN, UNKNOWNEST D 0.6000 NO 578.0 04444444 T -0.  
C 2 H 7 B 1  
MW 41.90 MI 9.59 MA 0.0827 MD 6.04 EM 6.56 GR 5.68

## CALCIUM DIMETHYLBOROHYDRATE

CA 51. 17592ORGAN, UNKNOWNCAL D 1.3983 NO2565.0 04444444 T -0.  
C 2 H 7 B 1 CA 1  
MW 81.98 MI 11.17 MA 0.1148 MD 7.19 EM 10.55 GR 10.84

## METHYLAMINOMETHYL CHLOROBORANE

GR 13. 2930ORGAN, SOLIDEST D 1.0000 NO 579.0 04444444 T -0.  
C 2 H 7 B 1 CL 1 N 1  
MW 91.36 MI 11.86 MA 0.0782 MD 4.61 EM 202.09 GR 133.23

## BORON TRICHLORIDE-DIMETHYLAMINE

CA 46. 10433ORGAN, UNKNOWNCAL D 1.7014 NO2566.0 04444444 T -0.  
C 2 H 7 B 1 CL 3 N 1  
MW 162.28 MI 14.26 MA 0.0901 MD 4.42 EM 590.98 GR 373.21

## METHYL ANINOMETHYL FLUOROBORANE

CA 46. 3443ORGAN, LIQUIDCAL D 1.0522 NO2567.0 04444444 T -0.  
C 2 H 7 B 1 F 1 N 1  
MW 74.91 MI 11.95 MA 0.1011 MD 5.92 EM 7.71 GR 6.51

## DIMETHYLSILYLDIFLUOROBORINE

CA 57. 18140ORGAN, UNKNOWNCAL D 1.4417 NO2568.0 04444444 T -0.  
C 2 H 7 B 1 F 2 O 1 SI 1  
MW 123.99 MI 14.42 MA 0.1024 MD 4.97 EM 7.49 GR 5.37

## BORON TRIFLUORIDE-DIMETHYLAMINE

GR 13. 2500ORGAN, SOLIDEST D 1.6000 NO 580.0 04444444 T 50.00  
C 2 H 7 B 1 F 3 N 1  
MW 112.91 MI 14.53 MA 0.1240 MD 5.98 EM 7.86 GR 6.71

## BORON TRIFLUORIDE-ETHYLAMINE

GR 13. 2500ORGAN, SOLIDEST D 1.6000 NO 581.0 04444444 T 89.00  
C 2 H 7 B 1 F 3 N 1  
MW 112.91 MI 14.53 MA 0.1240 MD 5.98 EM 7.86 GR 6.71

## POTASSIUM DIMETHYLBOROHYDRATE

NACN 22342ORGAN, UNKNOWNCAL D 1.3706 NO2569.0 04444444 T -0.  
C 2 H 7 B 1 K 2  
MW 120.10 MI 12.67 MA 0.0839 MD 4.64 EM 51.08 GR 33.83

A 20

## BORON TRIFLUORIDE-ETHYLPHENYLAMINE

CA 49. 4417ORGAN, UNKNOWNCAL D 1.2266 NO2574.0 04444444 T -0.  
C 2 H 8 B 1 F 3 N 2  
MW 127.92 MI 16.60 MA 0.0954 MD 4.62 EM 9.67 GR 5.99

## 2-HYDROXYETHYLAMMONIUM TETRAFLUOROBORATE

CA 51. 14546ORGAN, UNKNOWNCAL D 1.3431 NO2575.0 04444444 T -0.  
C 2 H 8 B 1 F 4 N 1 O 1  
MW 148.91 MI 17.81 MA 0.0968 MD 4.35 EM 8.67 GR 4.71

## BORON TRIFLUORIDE-BISMETHANOL

CA 53. 19190ORGAN, LIQUIDKND D 1.3120 NO 586.0 04440444 T -0.  
C 2 H 8 B 1 F 3 O 2  
MW 131.91 MI 16.44 MA 0.0983 MD 4.79 EM 7.52 GR 4.50

## POTASSIUM DIMETHYLBORONIC ACID

CA 54. 22126ORGAN, UNKNOWNCAL D 1.4015 NO2576.0 04444444 T -0.  
C 2 H 8 B 1 K 2 O 2  
MW 193.11 MI 15.65 MA 0.0863 MD 4.41 EM 51.82 GR 26.57

## LITHIUM DIMETHYLBOROHYDRATE(1-1)

AD123. 2380ORGAN, SOLIDCAL D 0.8628 NO4440.0 04414414 T -0.  
C 2 H 8 B 1 LI 1  
MW 49.89 MI 11.60 MA 0.1209 MD 8.34 EM 7.37 GR 7.69

## BORANE-ETHYLENEAMINE

CA 50. 14753ORGAN, SOLIDEST D 0.8500 NO 588.0 04444444 T 40.00  
C 2 H 8 B 1 N 1  
MW 56.91 MI 11.66 MA 0.1049 MD 7.20 EM 8.37 GR 7.53

## N-DIMETHYLAMINOBORINE

GR 13. 2390ORGAN, SOLIDEST D 0.8500 NO 589.0 04444444 T 73.50  
C 2 H 8 B 1 N 1  
MW 56.91 MI 11.66 MA 0.1049 MD 7.20 EM 8.37 GR 7.53

## AMINODIMETHYLBORANE

CA 51. 11153ORGAN, LIQUIDEST D 0.8500 NO 590.0 04444444 T -0.  
C 2 H 8 B 1 N 1  
MW 56.91 MI 11.66 MA 0.1049 MD 7.20 EM 8.37 GR 7.53

## PHOSPHINODIMETHYLBORANE

NACN 22342ORGAN, SOLIDCAL D 1.0856 NO2577.0 04444444 T 48.00  
C 2 H 8 B 1 P 1  
MW 73.86 MI 11.92 MA 0.1055 MD 7.08 EM 9.12 GR 8.07

## DIMETHYLPHOSPHINOBORINE

AD151. 1820ORGAN, UNKNOWNCAL D 1.0856 NO4241.0 04444444 T -0.  
C 2 H 8 B 1 P 1  
MW 73.86 MI 11.92 MA 0.1055 MD 7.08 EM 9.12 GR 8.07



A 21

DIMETHYLPHOSPHINOBORANE  
AD142, 0280ORGAN, SOLIDICAL D 1.0856 NO4175.0 04444444 T 86.50  
C 2 H 8 B 1 P 1  
MW 73.88 MI 11.92 MA 0.1055 MD 7.08 EM 9.12 GR 8.07

DIMETHYLPHOSPHINOBORANE POLYMER  
WATR 97, 1260ORGAN, SOLIDICAL D 1.4031 NO4123.0 04040410 T 170.50  
C 2 H 8 B 1 P 1  
MW 73.88 MI 11.92 MA 0.1364 MD 9.15 EM 9.12 GR 10.43

BORON TRIFLUORIDE-AMINODIMETHYLBORANE  
NACP 2, 1180ORGAN, UNKNOWCAL D 1.2779 NO2578.0 04144441 T -0.  
C 2 H 8 B 2 F 3 N 1  
MW 124.73 MI 16.50 MA 0.1018 MD 4.94 EM 9.99 GR 8.16

BISBORON TRIFLUORIDE-ETHYLENE DIAMINE)  
CA 49, 4510ORGAN, SOLIDICAL D 1.5030 MD 150.0 04404440 T 149.90  
C 2 H 8 B 2 F 6 N 2  
MW 195.74 MI 21.44 MA 0.0992 MD 3.70 EM 11.29 GR 9.22

POLYMERIC TETRAISIMETHYLIMINODIBORANE-ETHYLENE  
CA 54, 129801ORGAN, POLMERICAL D 1.4193 NO4124.0 04444444 T -0.  
C 2 H 8 B 2 N 4  
MW 109.76 MI 15.84 MA 0.1234 MD 6.23 EM 13.00 GR 10.13

N-DIMETHYL-B-MONOCHELOBORAZANE  
CA 55, 4343ORGAN, LIQUIDICAL D 1.0747 NO2579.0 04444444 T 18.00  
C 2 H 9 B 1 N 1  
MW 93.38 MI 13.86 MA 0.0981 MD 6.24 EM 203.55 GR 141.11

AMINODIMETHYLBORANE-HYDROGENCHLORIDE  
NACP 2, 1180ORGAN, UNKNOWCAL D 1.0747 NO2580.0 04444444 T -0.  
C 2 H 9 B 1 N 1  
MW 93.38 MI 13.86 MA 0.0981 MD 6.24 EM 203.55 GR 141.11

DIMETHYLCHLOROBORANE-AMMONIATE  
GM 13, 2520ORGAN, UNKNOWCAL U 1.0747 NO2581.0 04444444 T -0.  
C 2 H 9 B 1 N 1  
MW 93.38 MI 13.86 MA 0.0981 MD 6.24 EM 203.55 GR 141.11

CHLOROBORANE-DIMETHYLPHOSPHINE  
CA 56, 9786ORGAN, UNKNOWCAL D 1.2886 NO2582.0 04444444 T -0.  
C 2 H 9 B 1 P 1  
MW 110.85 MI 14.12 MA 0.0993 MD 6.33 EM 204.30 GR 143.70

DIMETHYLBORANE-AMMONIATE  
CA 46, 3443ORGAN, SOLIDICAL D 0.9100 NO2583.0 04444444 T 51.00  
C 2 H 9 B 1 N 1  
MW 76.92 MI 13.95 MA 0.0994 MD 6.41 EM 9.18 GR 6.54

A 23

3-HYDROXYPROPYLAMMONIUM TETRAFLUOROBORATE  
CA 31, 14546ORGAN, UNKNOWCAL D 1.2151 NO2590.0 04444444 T -0.  
C 2 H 10 B 1 P 4 N 1 O 1  
MW 150.93 MI 19.81 MA 0.0961 MD 4.85 EM 10.14 GR 4.92

LITHIUM TETRAHYDROBORATE-DIMETHYL ETHER  
CA 52, 8909ORGAN, SOLIDICAL D 0.8992 NO2591.0 04114411 T -0.  
C 2 H 10 B 1 Li 1 O 1  
MW 87.86 MI 14.59 MA 0.1184 MD 7.98 EM 8.84 GR 7.06

METHYLBORANE-METHYLAMINE  
GM 13, 2590ORGAN, LIQUIDEST D 0.8500 NO 591.0 04444411 T -0.  
C 2 H 10 B 1 N 1  
MW 58.93 MI 13.66 MA 0.1187 MD 8.69 EM 9.84 GR 8.55

BORANE-DIMETHYLAMINE  
CA 54, 2967ORGAN, LIQUIDEST D 0.8500 NO 592.0 04114411 T 11.00  
C 2 H 10 B 1 N 1  
MW 58.93 MI 13.66 MA 0.1187 MD 8.69 EM 9.84 GR 8.55

BORANE-ETHYLAMINE  
CA 54, 15228ORGAN, LIQUIDEST D 0.9000 NO1795.0 04444411 T 19.00  
C 2 H 10 B 1 N 1  
MW 58.93 MI 13.66 MA 0.1257 MD 9.20 EM 9.84 GR 9.05

DIMETHYLBORANE-AMMONIA  
CA 46, 12672ORGAN, SOLIDICAL D 0.7131 NO2592.0 04444444 T -0.  
C 2 H 10 B 1 N 1  
MW 58.93 MI 13.66 MA 0.0996 MD 7.29 EM 9.84 GR 7.17

BORANE-DIMETHYLHYDROXYLAMINE  
CA 50, 16504ORGAN, LIQUIDEST D 0.9777 NO 593.0 04444444 T 3.00  
C 2 H 10 B 1 N 1 O 1  
MW 74.93 MI 14.65 MA 0.1060 MD 7.23 EM 9.84 GR 7.12

BORANE-METHOXYMETHYLAMINE  
CA 50, 16504ORGAN, SOLIDEST D 0.9000 NO 594.0 04441441 T 22.00  
C 2 H 10 B 1 N 1 O 1  
MW 74.93 MI 14.65 MA 0.1060 MD 7.23 EM 9.84 GR 7.12

BORANE-N-METHOXYMETHYLAMINE  
CA 52, 16187ORGAN, LIQUIDICAL D 0.8324 NO2593.0 04444444 T -22.00  
C 2 H 10 B 1 N 1 O 1  
MW 74.93 MI 14.65 MA 0.0980 MD 6.69 EM 9.84 GR 6.59

BORANE-N-M-DIMETHYLHYDROXYLAMINE  
CA 52, 16187ORGAN, LIQUIDICAL D 0.8324 NO2594.0 04444444 T 3.00  
C 2 H 10 B 1 N 1 O 1  
MW 74.93 MI 14.65 MA 0.0980 MD 6.69 EM 9.84 GR 6.59

A 22

BORANE-DIFLUORODIMETHYLANE(DIPHOSPHINE  
AD240, 9120ORGAN, UNKNOWCAL D 1.2546 NO4441.0 04444411 T -0.  
C 2 H 9 B 1 P 2 N 1  
MW 126.90 MI 16.57 MA 0.0987 MD 5.36 EM 11.08 GR 6.60

DIMETHYLSILYLAMINOBORON TRIFLUORIDE  
CA 51, 12727ORGAN, UNKNOWCAL D 1.3161 NO2584.0 04444444 T -0.  
C 2 H 9 B 1 P 3 N 1 Si 1  
MW 143.01 MI 17.79 MA 0.0986 MD 4.99 EM 10.11 GR 5.60

SODIUM TETRAHYDROBORATE-ACETANIDE  
NACP 2, 8578ORGAN, SOLIDICAL D 1.1662 NO2585.0 04444444 T 100.00  
C 2 H 9 B 1 N 1 Na 1 O 1  
MW 94.91 MI 14.86 MA 0.1077 MD 6.52 EM 13.00 GR 9.43

DIBORANE-METHYL ETHER  
CA 32, 2860ORGAN, UNKNOWCAL D 0.8095 NO2586.0 04444444 T -0.  
C 2 H 9 B 2 O 1  
MW 59.91 MI 12.58 MA 0.1024 MD 7.32 EM 8.03 GR 6.53

BORANE-DIMETHYLPHOSPHINE  
PB 1, 31086ORGAN, UNKNOWCAL D 1.0023 NO4277.0 04444444 T -0.  
C 2 H 9 B 1 P 1  
MW 74.89 MI 12.92 MA 0.1042 MD 7.26 EM 9.85 GR 7.94

BORANE-DIMETHYL SULFIDE  
CA 53, 21318ORGAN, UNKNOWCAL D 0.9999 NO4278.0 04444444 T -0.  
C 2 H 9 B 1 S 1  
MW 75.97 MI 12.89 MA 0.1022 MD 7.13 EM 8.79 GR 6.97

DIMETHYLAURUMUM TETRAHYDROBORATE  
NACP 1, 2430ORGAN, LIQUIDICAL D 0.9888 NO2589.0 04114411 T -0.  
C 2 H 10 Al 1 B 1  
MW 71.90 MI 13.90 MA 0.1126 MD 8.10 EM 10.76 GR 8.71

CALCIUM DIMETHYLHYDROBORATE(2-AMMONIA COMPLEX  
CA 51, 17552ORGAN, UNKNOWCAL D 1.0114 NO2587.0 04444444 T -0.  
C 2 H 10 B 1 Ca 1 N 1  
MW 99.01 MI 15.24 MA 0.0938 MD 6.15 EM 13.83 GR 8.51

CHLOROBORANE-ETHYLENE DIAMINE  
CA 54, 8395ORGAN, UNKNOWCAL D 1.0536 NO2588.0 04444444 T -0.  
C 2 H 10 B 1 N 2  
MW 108.39 MI 15.93 MA 0.0933 MD 5.85 EM 205.37 GR 120.23

2-DIFLUOROBORYL-1,3-DIMETHYLDISILAZONE  
CA 53, 2030ORGAN, UNKNOWCAL D 1.3451 NO2589.0 04444444 T -0.  
C 2 H 10 B 1 F 2 N 1 Si 2  
MW 193.11 MI 18.76 MA 0.0993 MD 5.29 EM 11.53 GR 6.11

A 24

DIMETHOXYBORANE AMMONIA  
GM 13, 2460ORGAN, SOLIDEST D 1.1000 NO 594.0 04444441 T -0.  
C 2 H 10 B 1 N 1 O 2  
MW 90.93 MI 15.64 MA 0.2140 MD 7.29 EM 9.84 GR 7.17

BORANE-DIMETHYLPHOSPHINE  
CA 47, 11062ORGAN, LIQUIDICAL D 0.9326 NO2595.0 04444444 T -22.60  
C 2 H 10 B 1 P 1  
MW 75.90 MI 13.92 MA 0.1030 MD 7.40 EM 10.59 GR 7.83

BORANE-ETHYLPHOSPHINE  
WATR 57, 1260ORGAN, UNKNOWCAL D 0.9326 NO2596.0 04444444 T -0.  
C 2 H 10 B 1 P 1  
MW 75.90 MI 13.92 MA 0.1030 MD 7.40 EM 10.59 GR 7.83

1,2-DIMETHYLBORANE  
GM 13, 2210ORGAN, LIQUIDICAL D 0.7338 NO2597.0 04444444 T -124.90  
C 2 H 10 B 2  
MW 55.74 MI 13.56 MA 0.1075 MD 7.93 EM 10.15 GR 8.05

1,1-DIMETHYLBORANE  
GM 13, 2210ORGAN, LIQUIDICAL D 0.7338 NO2598.0 04444444 T -130.20  
C 2 H 10 B 2  
MW 55.74 MI 13.56 MA 0.1075 MD 7.93 EM 10.15 GR 8.05

ETHYLBORANE  
CA 54, 2938ORGAN, UNKNOWCAL D 0.7338 NO2599.0 04444444 T -0.  
C 2 H 10 B 2  
MW 55.74 MI 13.56 MA 0.1075 MD 7.93 EM 10.15 GR 8.05

CALCIUM AMMONODIMETHYLHYDROBORATE  
AD123, 2380ORGAN, SOLIDICAL D 1.3183 NO4442.0 04444444 T -0.  
C 2 H 10 B 2 Ca 1 N 2  
MW 123.84 MI 17.28 MA 0.1108 MD 6.41 EM 16.30 GR 10.45

NU-CHLOR-MUPHRIE-10METHYLAMINODIBORANE  
BURG 8, 2380ORGAN, UNKNOWCAL D 1.0936 NO2600.0 04144414 T -0.  
C 2 H 10 B 2 Cl 1 N 1  
MW 105.21 MI 15.83 MA 0.0991 MD 6.26 EM 205.68 GR 128.78

METHYLSILOXANE BORON TRIFLUORIDE COMPLEX  
CA 50, 14424ORGAN, UNKNOWCAL D 1.0270 NO2601.0 04444444 T -0.  
C 2 H 10 B 2 F 6 O 5 Si 6  
MW 416.28 MI 33.61 MA 0.0987 MD 2.92 EM 15.29 GR 4.46

ETHYLENEDIAMMONIUM BISTETRAFLUOROBORATE  
CA 51, 12730ORGAN, UNKNOWCAL D 1.4462 NO2602.0 04444444 T -0.  
C 2 H 10 B 2 F 8 N 2  
MW 235.76 MI 26.02 MA 0.0961 MD 3.69 EM 12.90 GR 4.77

A 25

SODIUM DIMETHYLAMINOTETRAHYDROBORATE  
NACF 2. 2840ORGAN.UNKNOWCAL D 0.9353 NO2603.0 04444444 T -0.  
C 2 H 10 B 2 N 1A 1  
Mw 92.74 MI 15.84 MA 0.0962 HD 6.08 EM 15.13 GR 9.19

N,N PRIME-BIS(BORYL) SYN DIMETHYLHYDRAZINE  
CA 48. 9314ORGAN.LIQUIDEST D 0.9000 NO 595.0 04444444 T 0.40  
C 2 H 10 H 2 N 2  
Mw 83.76 MI 15.70 MA 0.1016 HD 6.47 EM 12.31 GR 7.97

N,N PRIME-BIS(BORYL)ETHYLENEDIAMINE  
NACC 498670ORGAN.UNKNOWEST D 0.9000 NO 596.0 04444444 T -0.  
C 2 H 10 H 2 N 2  
Mw 83.76 MI 15.70 MA 0.1016 HU 6.47 EM 12.31 GR 7.97

DIMETHYLSILYL BIS(DIHYDROXYBORATE)  
CA 54.18051ORGAN.LIQUIDCAL D 1.4136 NO4279.0 04444444 T -0.  
C 2 H 10 B 2 O 6SI 1  
Mw 174.83 MI 20.76 MA 0.0983 HD 4.73 EM 10.94 GR 5.18

B-DIMETHYLHYDRAZINE  
CA 13. 7420ORGAN.LIQUIDEST D 0.8400 NO 577.0 04444444 T -48.00  
C 2 H 10 H 2 N 2  
Mw 108.59 MI 17.74 MA 0.0827 HU 4.66 EM 14.78 GR 6.89

N-DIMETHYLHYDRAZINE  
CA 13. 7420ORGAN.LIQUIDEST D 0.8400 NO 598.0 04444444 T -0.  
C 2 H 10 H 2 N 2  
Mw 108.59 MI 17.74 MA 0.0827 HU 4.66 EM 14.78 GR 6.89

HEXAHYDRODIMETHYL-5-TRIAZATRIURINE  
CA 32. 6570ORGAN.UNKNOWEST D 0.8400 NO 549.0 04444444 T -0.  
C 2 H 10 B 3 N 3  
Mw 108.59 MI 17.74 MA 0.0827 HD 4.66 EM 14.78 GR 6.89

B-METHYL-N-MORPHETHYLBOAZOLE  
CA 13. 7440ORGAN.LIQUIDCAL D 1.1252 NO2604.0 04444444 T -0.  
C 2 H 10 B 4 N 4  
Mw 133.41 MI 19.78 MA 0.1005 HD 5.08 EM 17.25 GR 8.76

DIMETHYLAMINO-FLUORINE THIOHYDRIDE  
NACF 2. 2840ORGAN.UNKNOWCAL D 1.0684 NO2605.0 04444444 T -0.  
C 2 H 11AL 1 H 1 N 1  
Mw 86.92 MI 15.97 MA 0.1182 HU 8.14 EM 12.57 GR 9.31

BOHANE-FLUOROKINETE THYLAMINOPHOSPHINE  
AD240. 9120ORGAN.LIQUIDCAL D 1.1261 NO4443.0 04444444 T -0.  
C 2 H 11 B 1 F 2 N 1 P 1  
Mw 124.91 MI 18.57 MA 0.0977 HD 5.79 EM 12.54 GR 6.60

A 27

MAGNESIUM TETRAHYDROBORATE(1-1-DIMETHYL ETHER  
CA 53. 2554ORGAN.UNKNOWCAL D 0.9003 NO2611.0 04444444 T -0.  
C 2 H 14 B 2 NG 1 B 1  
Mw 100.09 MI 19.77 MA 0.1178 HD 8.35 EM 13.62 GR 8.12

DIBORANE-DIMETHYLHYDRAZINE  
PB 1.22930ORGAN. SOLIDEST D 0.9000 NO 603.0 04444444 T -0.  
C 2 H 14 B 2 N 2  
Mw 87.79 MI 19.70 MA 0.1216 HD 8.65 EM 15.25 GR 9.41

AMMONIUM DIMETHYLAMINOTETRAHYDROBORATE  
NACA 2. 2840ORGAN.UNKNOWEST D 0.9000 NO 604.0 04444444 T -0.  
C 2 H 14 B 2 N 2  
Mw 87.79 MI 19.70 MA 0.1216 HU 8.65 EM 15.25 GR 9.41

BIS(METHYLENEDIAMINO)BORANE  
JACS 82. 4842ORGAN. SOLIDEST D 0.9000 NO 605.0 04004444 T -0.  
C 2 H 14 B 2 N 2  
Mw 87.79 MI 19.70 MA 0.1216 HD 8.65 EM 15.25 GR 9.41

DIMETHYLAMINODIBORANE-AMMONIA  
RUGG 6. 2380ORGAN.UNKNOWEST D 0.9000 NO 606.0 04144444 T -0.  
C 2 H 14 B 2 N 2  
Mw 87.79 MI 19.70 MA 0.1216 HD 8.65 EM 15.25 GR 9.41

BIS(BORANE)-ETHYLENEDIAMINE  
CA 54. 8395ORGAN.UNKNOWEST D 0.9000 NO 607.0 44444444 T -0.  
C 2 H 14 B 2 N 2  
Mw 87.79 MI 19.70 MA 0.1216 HU 8.65 EM 15.25 GR 9.41

DIBORANE-N,N-PRIME-DIMETHYLHYDRAZINE  
MK 52. 2550ORGAN. SOLIDEST D 0.9000 NO 608.0 04144444 T -0.  
C 2 H 14 B 2 N 2  
Mw 87.79 MI 19.70 MA 0.1216 HD 8.65 EM 15.25 GR 9.41

DECABORANE-BIS(THIOCYANODENYL)  
AD208. 4970ORGAN.UNKNOWCAL D 1.5750 NO4384.0 04444444 T -0.  
C 2 H 14 B 10 N 2 S 2  
Mw 238.67 MI 30.06 MA 0.1196 HD 5.57 EM 27.90 GR 11.10

HELABORANE-METHYLNITRILE  
AD214. 6020ORGAN.UNKNOWCAL D 1.2282 NO4176.0 04444444 T -0.  
C 2 H 15 B 10 N 1  
Mw 161.35 MI 27.39 MA 0.1256 HD 6.88 EM 26.03 GR 11.94

PENTABORANE-DIMETHYLAMINE  
CA 52.10869ORGAN.UNKNOWCAL D 0.8648 NO2613.0 04444444 T -0.  
C 2 H 16 B 5 N 1  
Mw 108.26 MI 23.54 MA 0.1133 HU 7.70 EM 19.81 GR 9.53

A 26

BORANE-ETHYLENEDIAMINE  
CA 54. 8395ORGAN.UNKNOWEST D 1.000 NO 600.0 04444444 T -0.  
C 2 H 11 B 1 N 2  
Mw 73.94 MI 15.73 MA 0.1281 HD 8.96 EM 11.65 GR 9.89

DIMETHYLAMINODIBORANE  
CA 52.10869ORGAN.LIQUIDAND D 0.8200 NO 73.0 04444444 T -54.40  
C 2 H 11 B 2 N 1  
Mw 70.76 MI 15.63 MA 0.0825 HD 5.81 EM 11.97 GR 6.32

ETHYLAMINODIBORANE  
NACN 27730ORGAN.LIQUIDEST D 0.6500 NO 601.0 04444444 T -96.40  
C 2 H 11 B 2 N 1  
Mw 70.76 MI 15.63 MA 0.0865 HD 6.09 EM 11.97 GR 6.62

DIMETHYLAMINODIBORANE  
CA 54.17131ORGAN.UNKNOWCAL D 0.7277 NO2606.0 04444444 T -0.  
C 2 H 12 B 2 N 1  
Mw 71.77 MI 16.63 MA 0.1016 HD 7.33 EM 12.70 GR 7.76

BIS(METHYLAMINO)BORANE  
NACN 27730ORGAN.UNKNOWEST D 0.9000 NO 502.0 04444444 T -0.  
C 2 H 12 B 2 N 2  
Mw 85.77 MI 17.70 MA 0.1119 HD 7.58 EM 13.78 GR 8.71

BORANE-SILANE-CYANOBORINE-CYANOSILANE ADDITION COMPLEX  
AD252. 0940ORGAN.UNKNOWCAL D 1.1632 NO4256.0 04444444 T -0.  
C 2 H 12 B 2 N 261 2  
Mw 141.95 MI 20.22 MA 0.0998 HU 5.92 EM 15.34 GR 7.57

DIMETHYLENETETRAHOBORANE  
CA 55. 42210ORGAN.UNKNOWCAL D 0.8393 NO2607.0 04444444 T -0.  
C 2 H 12 B 4  
Mw 79.40 MI 17.50 MA 0.1114 HD 7.64 EM 14.40 GR 9.17

AMINODIBORANE-DIMETHYLETHYL  
NACF 2. 2840ORGAN.UNKNOWCAL D 0.8387 NO2608.0 04444444 T -0.  
C 2 H 13 B 2 N 1  
Mw 84.77 MI 18.62 MA 0.1080 HD 7.40 EM 13.44 GR 7.65

1-ETHYLPENTABORANE(1)  
CA 53.19569ORGAN.LIQUIDCAL D 0.9444 NO2609.0 04444444 T -0.  
C 2 H 13 B 5  
Mw 91.23 MI 19.47 MA 0.1201 HU 8.02 EM 16.53 GR 10.20

BIS(LITHIUM TETRAHYDROBORATE)-DIMETHYL ETHER  
NACF 2. 2840ORGAN.UNKNOWCAL D 0.8377 NO2610.0 04144444 T -0.  
C 2 H 14 B 2 Li 2 O 1  
Mw 99.65 MI 20.57 MA 0.1158 HU 7.88 EM 13.25 GR 7.45

A 28

NONAHOBORANE-METHYLNITRILE  
AD259. 4730ORGAN.UNKNOWCAL D 1.1213 NO4177.0 04444444 T -0.  
C 2 H 16 B 9 N 1  
Mw 151.54 MI 27.42 MA 0.1222 HD 7.13 EM 25.38 GR 11.91

TRICABORANE-DIMETHYLAMINODIBORATE  
AD151. 4730ORGAN.UNKNOWCAL D 0.8312 NO4178.0 04444444 T -0.  
C 2 H 17 B 5 N 1  
Mw 104.27 MI 24.54 MA 0.1124 HD 7.79 EM 20.54 GR 9.41

ETHYLENEDIAMINODIBORANE(1)  
CA 54.12979ORGAN.LIQUIDCAL D 1.0634 NO2614.0 04444444 T -0.  
C 2 H 18 B 10  
Mw 150.37 MI 29.32 MA 0.1249 HU 7.67 EM 27.16 GR 11.97

ETHYLENEDIAMINODIBORANE ISOMER  
CA 54.12979ORGAN.LIQUIDCAL D 1.1686 NO2615.0 04444444 T -0.  
C 2 H 18 B 10  
Mw 150.37 MI 29.32 MA 0.1373 HU 8.43 EM 27.16 GR 12.71

DIMETHYL DECABORANE  
AD237. 1780ORGAN. SOLIDCAL D 1.0634 NO4444.0 04444444 T -0.  
C 2 H 18 B 10  
Mw 150.37 MI 29.32 MA 0.1249 HD 7.67 EM 27.16 GR 11.97

ETHOXYDECABORANE  
CA 54.10833ORGAN.UNKNOWCAL D 1.1217 NO2516.0 04444444 T -0.  
C 2 H 18 B 10 O 1  
Mw 186.97 MI 30.31 MA 0.1231 HD 7.31 EM 27.16 GR 11.09

ETHYLENEDIAMMONIUM BIS(TETRAHYDROBORATE)  
CA 54.17131ORGAN.UNKNOWCAL D 0.7319 NO2612.0 04444444 T -0.  
C 2 H 20 B 2 N 2  
Mw 93.84 MI 25.70 MA 0.1240 HD 9.65 EM 19.65 GR 9.48

DECABORANE-DIMETHYLAMINE  
CA 53. 4980ORGAN.UNKNOWCAL D 0.9908 NO2617.0 04444444 T -0.  
C 2 H 21 B 10 N 1  
Mw 167.40 MI 33.39 MA 0.1190 HU 7.49 EM 30.44 GR 10.85

DIMETHYLAMMONIUM DECABORATE  
CA 36. 1864ORGAN. SOLIDCAL D 1.6225 NO2618.0 04444444 T -0.  
C 2 H 28 B 10 N 2 O 24  
Mw 572.46 MI 65.22 MA 0.1113 HD 4.78 EM 36.69 GR 6.26

2,4,6-TRI(THIOCYANODENYL)BOAZOLE  
AD260. 4970ORGAN.LIQUIDCAL D 1.3484 NO4445.0 04444444 T -0.  
C 3 H 3 B 3 N 6 S 3  
Mw 251.74 MI 18.66 MA 0.0602 HD 0.47 EM 15.17 GR 4.90

A 29

TRIS(18-THIOCYANO)BORAZINE  
AD260. 4970ORGAN, UNKNOWNCAL D 1.3484 NO4179.0 04114444 T -0.  
C 3 M 3 B 3 M 6 S 3  
MW 291.74 MI 18.66 MA 0.0602 MD 0.97 EM 15.17 GR 4.90

DICHLORO(11-CHLOROPROPENYL)OXI-BORINE  
CA 51. 9520ORGAN, UNKNOWNCAL D 1.3000 NO 567.0 04444444 T -0.  
C 3 M 4 B 1 CL 3 O 1  
MW 173.26 MI 11.99 MA 0.0542 MD 1.81 EM 587.71 GR 265.62

BORON TRICHLORIDE-ETHYLENE CYANIDE  
CA 54.20970ORGAN, SOLIDCAL D 1.5206 NO2619.0 04444444 T 138.00  
C 3 M 3 B 1 CL 3 M 1  
MW 170.26 MI 11.07 MA 0.0596 MD 1.61 EM 588.06 GR 316.76

ALLYLOXYDICHLOBORANE  
CA 51. 29370ORGAN, UNKNOWNCAL D 1.2000 NO 568.0 04444444 T -0.  
C 3 M 3 B 1 CL 2 O 1  
MW 138.81 MI 11.79 MA 0.0614 MD 2.60 EM 394.00 GR 205.17

BORON TRICHLORIDE-PROPIONITRILE  
GM 13. 2010ORGAN, UNKNOWNCAL D 1.6062 NO2620.0 04444444 T 141.50  
C 3 M 5 B 1 CL 3 M 1  
MW 172.87 MI 13.07 MA 0.0736 MD 2.81 EM 589.53 GR 331.08

BORON TRIFLUORIDE-PROPIONITRILE  
CA 52.19430ORGAN, UNKNOWNCAL D 1.2514 NO2621.0 04444444 T -0.  
C 3 M 5 B 1 F 3 M 1  
MW 122.90 MI 13.34 MA 0.0818 MD 3.07 EM 589.61 GR 3.93

BORON TRIFLUORIDE-PROPIONYL FLUORIDE  
CA 51. 35030ORGAN, UNKNOWNCAL D 1.3496 NO2622.0 04444444 T -0.  
C 3 M 5 B 1 F 4 O 1  
MW 143.89 MI 14.55 MA 0.0822 MD 2.82 EM 589.61 GR 3.05

2,6,7-TRIOXA-1-BORANICYCLO--(2,2,1)-HEPTANE  
CA 48. 6930ORGAN, SOLIDEST D 1.0500 NO 611.0 04444444 T 150.50  
C 3 M 5 B 1 O 3  
MW 99.89 MI 11.37 MA 0.0720 MD 3.17 EM 581.11 GR 3.24

GLYCEOL BORATE  
CA 35. 6380ORGAN, UNKNOWNCAL D 0.9500 NO 610.0 04444444 T -0.  
C 3 M 5 B 1 O 3  
MW 97.89 MI 11.37 MA 0.0691 MD 2.86 EM 581.11 GR 2.93

BIS(DIFLUOROBORYL)-CHLOROPROPANE  
NACH -49410ORGAN, UNKNOWNCAL D 1.5208 NO2623.0 04444444 T -0.  
C 3 M 5 B 2 CL 1 F 4  
MW 174.17 MI 15.73 MA 0.0827 MD 2.63 EM 201.24 GR 105.84

A 31

BORON TRIFLUORIDE-TAIFLUORODIMETHYLPHOSPHINOMETHANE  
CA 56.12670ORGAN, LIQUIDCAL D 1.4355 NO2626.0 04414441 T -9.00  
C 3 M 6 B 1 F 3 O 1  
MW 147.88 MI 18.47 MA 0.0807 MD 2.62 EM 811.11 GR 3.54

DIMETHYLBORON ISOCYANATE POLYMER  
CA 56.20840ORGAN, PULVERCAL D 1.3504 NO4125.0 04444444 T -0.  
C 3 M 6 B 1 N 1 O 1  
MW 82.91 MI 11.46 MA 0.1124 MD 5.89 EM 8.92 GR 6.79

DIMETHYLBORON ISOCYANATE  
CA 56.20840ORGAN, UNKNOWNCAL D 1.1000 NO4281.0 04444444 T -0.  
C 3 M 6 B 1 N 1 O 1  
MW 82.91 MI 11.46 MA 0.0916 MD 4.79 EM 8.92 GR 5.53

1,2-BIS(DICHLOROBORYL)PROPANE  
CA 56.22320ORGAN, LIQUIDCAL D 1.0965 NO2627.0 04444444 T -130.00  
C 3 M 6 B 2 CL 4  
MW 205.55 MI 15.17 MA 0.0754 MD 2.98 EM 785.02 GR 390.25

1,3-BIS(DICHLOROBORYL)PROPANE  
CA 56.22320ORGAN, LIQUIDCAL D 1.0965 NO2628.0 04444444 T -69.20  
C 3 M 6 B 2 CL 4  
MW 205.55 MI 15.17 MA 0.0754 MD 2.98 EM 785.02 GR 390.25

DICHLOROPROPYLBORANE  
CA 52. 6230ORGAN, LIQUIDEST D 1.0000 NO 615.0 04144411 T -0.  
C 3 M 7 B 1 CL 2  
MW 124.82 MI 12.80 MA 0.0618 MD 3.38 EM 395.47 GR 190.83

ISOPROPYLDICHLOROBORANE  
CA 52. 6230ORGAN, LIQUIDEST D 1.0000 NO 616.0 04144411 T -0.  
C 3 M 7 B 1 CL 2  
MW 124.82 MI 12.80 MA 0.0618 MD 3.38 EM 395.47 GR 190.83

DICHLOROPROPYLBORINE  
CA 53. 5780ORGAN, UNKNOWNCAL D 1.1380 NO 192.0 04444444 T -0.  
C 3 M 7 B 1 CL 2 O 1  
MW 140.82 MI 13.79 MA 0.0671 MD 3.41 EM 395.47 GR 192.50

DICHLORODISOPROPYLBORANE  
CA 50. 7710ORGAN, UNKNOWNCAL D 1.1400 NO 617.0 04444444 T -0.  
C 3 M 7 B 1 CL 2 O 1  
MW 140.82 MI 13.79 MA 0.0672 MD 3.41 EM 395.47 GR 192.83

BORON TRICHLORIDE-PROPIONAMIDE  
CA 56.18140ORGAN, LIQUIDCAL D 1.5469 NO1796.0 04444444 T -0.  
C 3 M 7 B 1 CL 3 M 1 O 1  
MW 190.29 MI 16.06 MA 0.0786 MD 3.43 EM 591.00 GR 289.78

A 30

1,2-BIS(DICHLOROBORYL)-3-CHLOROPROPANE  
PB 1.22930ORGAN, UNKNOWNCAL D 1.8960 NO2624.0 04144441 T -0.  
C 3 M 5 B 2 CL 3  
MW 240.00 MI 15.37 MA 0.0731 MD 2.38 EM 978.73 GR 465.73

2-CHLORO-4-METHYL-1,3,2-DIOXABOROLANE  
CA 52.163870ORGAN, UNKNOWNCAL D 1.0500 NO 612.0 04444444 T -0.  
C 3 M 6 B 1 CL 1 O 2  
MW 120.36 MI 12.58 MA 0.0661 MD 3.15 EM 200.29 GR 105.25

TRIMETHYLENE CHLOROBORONATE  
CA 54.223370ORGAN, LIQUIDCAL D 1.2694 NO4280.0 04444444 T -0.  
C 3 M 6 B 1 CL 1 O 2  
MW 120.36 MI 12.58 MA 0.0799 MD 3.81 EM 200.29 GR 127.24

2-CHLORO-1,3,2-DIOXABORINANE  
CA 52.163870ORGAN, UNKNOWNCAL D 1.0500 NO 613.0 04444444 T -0.  
C 3 M 6 B 1 CL 1 O 2  
MW 120.36 MI 12.58 MA 0.0661 MD 3.15 EM 200.29 GR 105.25

TRIMETHYLENE CHLOROBORONATE  
AD245. 3100ORGAN, LIQUIDCAL D 1.2694 NO4446.0 04414444 T -0.  
C 3 M 6 B 1 CL 1 O 2  
MW 120.36 MI 12.58 MA 0.0799 MD 3.81 EM 200.29 GR 127.24

BORON TRICHLORIDE-PROPYLENE OXIDE  
CA 48. 7470ORGAN, LIQUIDEST D 1.3000 NO 614.0 04444444 T -0.  
C 3 M 6 B 1 CL 3 O 1  
MW 175.27 MI 13.99 MA 0.0625 MD 2.68 EM 589.18 GR 263.22

DICHLORO(13-CHLOROPROPYLOXY)BORINE  
CA 51. 9470ORGAN, UNKNOWNCAL D 1.2930 NO 151.0 04444444 T -0.  
C 3 M 6 B 1 CL 3 O 1  
MW 175.27 MI 13.99 MA 0.0622 MD 2.67 EM 589.18 GR 261.00

BORON TRIFLUORIDE-ACETONE  
CA 52. 9950ORGAN, SOLIDCAL D 1.2081 NO2625.0 04444444 T 44.00  
C 3 M 6 B 1 F 3 O 1  
MW 125.90 MI 14.26 MA 0.0804 MD 3.47 EM 6.07 GR 3.51

BORON TRIFLUORIDE-METHYL ACETATE  
CA 26. 29340ORGAN, SOLIDCAL D 1.3240 NO 609.0 04410444 T -0.  
C 3 M 6 B 1 F 3 O 2  
MW 141.90 MI 15.25 MA 0.0857 MD 3.37 EM 6.07 GR 3.41

ETHYL FORMATE-BORON TRIFLUORIDE  
CA 26. 4030ORGAN, LIQUIDCAL D 1.3150 NO 400.0 04444444 T 3.00  
C 3 M 6 B 1 F 3 O 2  
MW 141.90 MI 15.25 MA 0.0851 MD 3.35 EM 6.07 GR 3.39

A 32

BORON TRICHLORIDE-N-DIMETHYLFORMAMIDE  
CA 56.18140ORGAN, SOLIDCAL D 1.5085 NO2629.0 04444444 T 120.50  
C 3 M 7 B 1 CL 3 M 1 O 1  
MW 190.29 MI 16.06 MA 0.0787 MD 3.34 EM 591.00 GR 282.71

BORON TRICHLORIDE-N-METHYLACETAMIDE  
CA 56.18140ORGAN, SOLIDCAL D 1.5085 NO2630.0 04444444 T 89.00  
C 3 M 7 B 1 CL 3 M 1 O 1  
MW 190.29 MI 16.06 MA 0.0787 MD 3.34 EM 591.00 GR 282.71

BORON TRICHLORIDE-PROPYLCHLORIDE  
GM 13. 2010ORGAN, UNKNOWNCAL D 1.6474 NO2631.0 04444444 T -0.  
C 3 M 7 B 1 CL 4  
MW 195.74 MI 15.20 MA 0.0788 MD 3.54 EM 786.36 GR 395.43

BORON TRICHLORIDE-(2-ETHOXYETHYL)-METHYL ETHER  
CA 51. 9470ORGAN, SOLIDCAL D 1.0536 NO2632.0 04444444 T 35.50  
C 3 M 7 B 1 CL 4 O 1  
MW 211.74 MI 16.19 MA 0.0782 MD 3.29 EM 786.36 GR 368.96

BORON TRIFLUORIDE-N,N-DIMETHYLFORMAMIDE  
CA 47. 42370ORGAN, SOLIDCAL D 1.1982 NO2633.0 04444444 T 58.50  
C 3 M 7 B 1 F 3 M 1 O 1  
MW 140.92 MI 16.33 MA 0.0836 MD 3.59 EM 7.88 GR 4.04

BORON TRIFLUORIDE-FLUOROPROPANE  
CA 51.13790ORGAN, UNKNOWNCAL D 1.2051 NO2634.0 04444444 T -0.  
C 3 M 7 B 1 F 4  
MW 129.91 MI 15.56 MA 0.0869 MD 3.91 EM 6.87 GR 3.84

PROPYL BORON OXIDE  
CA 53. 8810ORGAN, LIQUIDCAL D 0.8864 NO 75.0 04440444 T -0.  
C 3 M 7 B 1 O 1  
MW 69.91 MI 11.39 MA 0.0870 MD 4.35 EM 6.58 GR 5.02

ISOPROPYL METABORATE  
CA 53. 8810ORGAN, SOLIDEST D 0.9000 NO 619.0 04444444 T 50.00  
C 3 M 7 B 1 O 2  
MW 85.91 MI 12.38 MA 0.0781 MD 4.42 EM 6.58 GR 4.15

ETHYLENE METHYLBORONATE  
CA 52.15510ORGAN, UNKNOWNCAL D 1.0000 NO 620.0 04444444 T -0.  
C 3 M 7 B 1 O 2  
MW 85.91 MI 12.38 MA 0.0868 MD 4.91 EM 6.58 GR 4.61

ALLYLDIMETHYLBORANE  
PB 1.118920ORGAN, SOLIDEST D 1.0000 NO 621.0 04114444 T 74.50  
C 3 M 7 B 1 O 2  
MW 85.91 MI 12.38 MA 0.0868 MD 4.91 EM 6.58 GR 4.61

A 33

## 2-HYDROXY-1,3,2-DIOXABORINANE

CA 50.10645ORGAN. SOLIDEST D 0.9800 NO 622.0 04444444 T -0.  
C 3 H 7 B 1 O 3  
MW 101.91 MI 13.37 MA 0.0774 MD 4.09 EM 6.58 GR 3.81

## 2-HYDROXY-4-METHYL-1,3,2-DIOXABOROLANE

CA 50.10645ORGAN. SOLIDEST D 0.9800 NO 623.0 04444444 T -0.  
C 3 H 7 B 1 O 3  
MW 101.91 MI 13.37 MA 0.0774 MD 4.09 EM 6.58 GR 3.81

## PROPYLENE BORATE

CA 37. 4956ORGAN. LIQUIDEST D 0.9800 NO 624.0 04444444 T -0.  
C 3 H 7 B 1 O 3  
MW 101.91 MI 13.37 MA 0.0774 MD 4.09 EM 6.58 GR 3.81

## 2-CHLORO-4-METHYL-1,3,2-DIAZABOROLIDINE

AD256. 420ORGAN. LIQUIDICAL D 1.1344 NO4447.0 04444444 T -0.  
C 3 H 8 B 1 CL 1 N 2  
MW 118.34 MI 14.74 MA 0.0851 MD 4.62 EM 203.91 GR 117.69

## 3-CHLOROPROP-1-YLBORONIC ACID

CA 53. 4177ORGAN. UNKNOWEST D 1.0000 NO 625.0 04444444 T -0.  
C 3 H 8 B 1 CL 1 O 2  
MW 122.37 MI 14.58 MA 0.0718 MD 3.94 EM 201.78 GR 99.31

## BUNON TRIFLUORIDE-METHYLETHYL ETHER

CA 52.19374ORGAN. LIQUIDICAL D 1.1811 NO2635.0 04444444 T -63.00  
C 3 H 8 B 1 F 3 O 1  
MW 127.92 MI 16.76 MA 0.0904 MD 4.45 EM 7.53 GR 4.19

## AZETIDINUMINANE

CA 50.14753ORGAN. SOLIDEST D 0.8900 NO 626.0 04444444 T 70.00  
C 3 H 8 B 1 N 1  
MW 68.92 MI 12.67 MA 0.0926 MD 5.94 EM 8.19 GR 6.29

## MONISOPROPYLAMINOBORANE POLYMER

LA 52. 1681ORGAN. POLYMERICAL D 1.0287 NO4305.0 04044444 T -0.  
C 3 H 8 B 1 N 1  
MW 68.92 MI 12.67 MA 0.1121 MD 7.19 EM 6.39 GR 7.54

## TRIMETHYLBORINE

CA 13. 2150ORGAN. GASEST D 0.0025 NO 193.0 04144411 T -161.40  
C 3 H 9 B 1  
MW 55.92 MI 12.40 MA 0.0003 MD 0.02 EM 8.04 GR 0.07

## LITHIUM DIMETHYLAMINODIMETHYLBORINE

CA 53. 3035ORGAN. LIQUIDUM D 0.9500 NO 60.0 04444440 T -70.00  
C 3 H 9 B 1 CL 1 N 1  
MW 105.37 MI 14.67 MA 0.0797 MD 4.89 EM 201.97 GR 110.53

A 35

## TRIMETHYLOXONIUM TETRAFLUOROBORATE

CA 50. 7736ORGAN. SOLIDICAL D 1.1773 NO2646.0 04444444 T 141.00  
C 3 H 9 B 1 F 4 O 1  
MW 147.92 MI 18.55 MA 0.0869 MD 4.31 EM 8.34 GR 4.00

## METHOXYDIMETHYLSULFONIUM TETRAFLUOROBORATE

CA 50. 5427ORGAN. SOLIDICAL D 1.3206 NO2647.0 04444444 T 107.00  
C 3 H 9 B 1 F 4 O 1 S 1  
MW 179.98 MI 19.85 MA 0.0877 MD 3.98 EM 9.10 GR 4.02

## TRIMETHYLSULFONIUM TETRAFLUOROBORATE

CA 54. 8124ORGAN. SOLIDICAL D 1.2823 NO2648.0 04444444 T -0.  
C 3 H 9 B 1 F 4 S 1  
MW 163.98 MI 18.86 MA 0.0884 MD 4.24 EM 9.10 GR 4.29

## TRIMETHYLBORINE-ETHYLENE DIAMINE

CA 49.12276ORGAN. SOLIDKNO D 0.9666 NO 74.0 04444440 T 43.50  
C 3 H 9 B 1 N 2  
MW 83.94 MI 14.54 MA 0.0988 MD 6.11 EM 10.20 GR 6.93

## 2-METHYL-1,3,2-DIAZABOROLIDINE

CA 49.12276ORGAN. SOLIDKNO D 0.9500 NO 194.0 04444444 T 43.50  
C 3 H 9 B 1 N 2  
MW 83.94 MI 14.54 MA 0.0991 MD 6.14 EM 10.20 GR 6.96

## METHYL DIMETHYLBORINATE

CA 51. 4936ORGAN. GASEST D 0.0032 NO 629.0 04441441 T -0.  
C 3 H 9 B 1 O 2  
MW 71.92 MI 13.39 MA 0.0004 MD 0.02 EM 8.05 GR 0.02

## PROPYLEBORONIC ACID

CA 51. 6533ORGAN. SOLIDEST D 1.0000 NO 630.0 04444444 T 107.00  
C 3 H 9 B 1 O 2  
MW 87.92 MI 14.38 MA 0.0985 MD 6.17 EM 8.05 GR 5.51

## DIMETHYLBORYLMETHYLPEKORIDE

CA 51. 4936ORGAN. LIQUIDICAL D 0.9249 NO2649.0 04144444 T -0.  
C 3 H 9 B 1 O 2  
MW 87.92 MI 14.38 MA 0.0911 MD 5.70 EM 8.05 GR 5.10

## DIMETHYL METHYLBORONATE

PA 1.25424ORGAN. LIQUIDEST D 0.9000 NO 631.0 04144440 T -110.20  
C 3 H 9 B 1 O 2  
MW 87.92 MI 14.38 MA 0.0887 MD 5.55 EM 8.05 GR 4.96

## DIHYDROVISOPROPYLBORANE

JACS 79. 5179ORGAN. SOLIDEST D 1.0000 NO 632.0 04444444 T 161.00  
C 3 H 9 B 1 O 2  
MW 87.92 MI 14.38 MA 0.0985 MD 6.17 EM 8.05 GR 5.51

A 34

## SODIUM FORMETHOXYBORATE

CA 52.18194ORGAN. UNKNOWICAL D 1.4296 NO2636.0 04444444 T -0.  
C 3 H 9 B 1 CL 2 O 1 Na 1  
MW 170.93 MI 17.05 MA 0.0859 MD 4.53 EM 397.72 GR 200.36

## BORON TRICHLORIDE-TRIMETHYLAMINE

CA 54.20840ORGAN. SOLIDICAL D 1.3969 NO2637.0 04444444 T 238.00  
C 3 H 9 B 1 CL 3 N 1  
MW 176.30 MI 17.07 MA 0.0815 MD 4.30 EM 592.46 GR 282.75

## BORON TRICHLORIDE-TRIMETHYLPHOSPHINE

CA 39. 3472ORGAN. UNKNOWICAL D 1.5489 NO2638.0 04444444 T -0.  
C 3 H 9 B 1 CL 3 P 1  
MW 193.27 MI 17.33 MA 0.0837 MD 4.34 EM 593.21 GR 286.35

## TRIMETHYLOXONIUM CHLOROBORATE

GM 13. 2020ORGAN. UNKNOWICAL D 1.5669 NO2639.0 04444444 T -0.  
C 3 H 9 B 1 CL 4 O 1  
MW 213.75 MI 18.19 MA 0.0803 MD 3.97 EM 785.83 GR 346.97

## TRIMETHYLAMINE-BORANE-D3

CA 52.14372ORGAN. UNKNOWICAL D 0.6778 NO2640.0 04444444 T -0.  
C 3 H 9 B 1 D 3 N 1  
MW 75.98 MI 16.11 MA 0.0866 MD 6.45 EM 9.12 GR 4.90

## BUNON TRIFLUORIDE-TRIMETHYLAMINE

GM 13. 2500ORGAN. SOLIDICAL D 1.0745 NO2641.0 04444444 T -0.  
C 3 H 9 B 1 F 3 N 1  
MW 126.93 MI 17.34 MA 0.0884 MD 4.59 EM 9.35 GR 4.77

## TRIMETHYLAMINE OXIDE-BUNON TRIFLUORIDE

GM 13. 1790ORGAN. SOLIDICAL D 1.1296 NO2642.0 04044441 T 89.00  
C 3 H 9 B 1 F 3 N 1 O 1  
MW 147.93 MI 18.33 MA 0.0873 MD 4.28 EM 9.35 GR 4.45

## BORON TRIFLUORIDE-TRIMETHYLPHOSPHITE

CA 46. 8600ORGAN. SOLIDICAL D 1.2782 NO2643.0 04444444 T 149.00  
C 3 H 9 B 1 F 3 P 1  
MW 159.90 MI 18.59 MA 0.0895 MD 4.13 EM 10.09 GR 4.86

## BUNON TRIFLUORIDE-TRIMETHYLPHOSPHINE

CA 51. 9441ORGAN. SOLIDICAL D 1.2331 NO2644.0 04444444 T -0.  
C 3 H 9 B 1 F 3 P 1  
MW 143.90 MI 17.60 MA 0.0908 MD 4.65 EM 10.09 GR 5.21

## 2-ETHYLSEUDOUREA TETRAFLUOROBORATE

CA 34. 7327ORGAN. SOLIDICAL D 1.1976 NO2645.0 04444444 T 184.50  
C 3 H 9 B 1 F 4 N 2 O 1  
MW 175.94 MI 20.69 MA 0.0848 MD 3.69 EM 10.50 GR 4.30

A 36

## TRIMETHYL BOKATE

GM 13. 2200ORGAN. LIQUIDKNO D 0.9193 NO 195.0 04444444 T -29.30  
C 3 H 9 B 1 O 3  
MW 105.92 MI 15.37 MA 0.0819 MD 4.80 EM 8.05 GR 4.29

## GLYCERUBORIC ACID

CA 22. 2122ORGAN. UNKNOWICAL D 1.1303 NO2650.0 04444444 T -0.  
C 3 H 9 B 1 O 5  
MW 135.92 MI 17.35 MA 0.0869 MD 4.51 EM 0.09 GR 4.03

## DIMETHYLMETHYLTHIOBORANE

CA 49.10166ORGAN. LIQUIDEST D 0.8000 NO 633.0 04444444 T -84.00  
C 3 H 9 B 1 S 1  
MW 87.98 MI 13.70 MA 0.0750 MD 4.93 EM 8.80 GR 4.82

## METHYLDIMETHYLMETHYLBORANE

CA 50.13725ORGAN. LIQUIDEST D 1.0500 NO 634.0 04444444 T -59.00  
C 3 H 9 B 1 S 2  
MW 120.04 MI 15.00 MA 0.0790 MD 4.74 EM 9.56 GR 5.04

## TRISIMETHYLMETHYLBORATE

CA 47. 1517ORGAN. LIQUIDEST D 1.0600 NO 635.0 04444444 T 3.20  
C 3 H 9 B 1 S 3  
MW 152.10 MI 16.30 MA 0.0684 MD 3.78 EM 10.32 GR 4.93

## 2,4,6-TRICHLORO-1,3,5-TRIMETHYLBORAZINE

CA 54.12980ORGAN. SOLIDICAL D 1.4719 NO2651.0 04444444 T 154.50  
C 3 H 9 B 1 CL 3 N 3  
MW 225.96 MI 21.15 MA 0.0830 MD 3.53 EM 597.40 GR 234.39

## B,8,8-TRISICHLOROMETHYLBORAZOLE

CA 54. 3188ORGAN. SOLIDICAL D 1.4719 NO2652.0 04444444 T -0.  
C 3 H 9 B 1 CL 3 N 3  
MW 225.96 MI 21.15 MA 0.0830 MD 3.53 EM 597.40 GR 234.39

## 2,4,6-TRIFLUORO-1,3,5-TRIMETHYLBORAZINE

CA 46. 3443ORGAN. SOLIDICAL D 1.2142 NO2653.0 04444444 T 88.50  
C 3 H 9 B 1 F 3 N 3  
MW 176.99 MI 21.42 MA 0.0887 MD 3.73 EM 14.29 GR 5.92

## TRISULFUROMETHOXYBORINE

AD292. 0940ORGAN. SOLIDICAL D 1.4262 NO4257.0 04444444 T 419.00  
C 3 H 9 B 1 F 6 O 3  
MW 230.56 MI 25.05 MA 0.0898 MD 3.23 EM 11.28 GR 4.04

## TRIMETHYLBOROXIN

CA 52. 3670ORGAN. LIQUIDEST D 0.9500 NO 636.0 04444440 T -38.00  
C 3 H 9 B 3 O 3  
MW 125.94 MI 17.31 MA 0.0789 MD 4.10 EM 10.83 GR 4.94

A 37

2,4,6-TRIMETHYL-1,3,5,2,4,6-TRIOXA TRIBORANE  
CA 52, 3470ORGAN, LIQUIDEST D 0.9300 NO 637.0 04444444 T -0.  
C 3 H 9 B 3 O 3  
MW 125.86 MI 17.31 MA 0.0789 MD 4.10 EM 10.83 GR 4.96

TRIMETHOXYBORATHINE  
CA 48, 8167ORGAN, LIQUIDCAL D 1.5680 NO2654.0 04144444 T 24.00  
C 3 H 9 B 3 O 3  
MW 221.74 MI 21.21 MA 0.0903 MD 3.83 EM 13.11 GR 5.58

TRIMETHYLBORATHINE  
CA 49, 13002ORGAN, SOLIDCAL D 1.4990 NO2655.0 04114144 T 60.00  
C 3 H 9 B 3 S 3  
MW 173.74 MI 18.24 MA 0.0949 MD 4.66 EM 13.10 GR 6.79

TRIMETHOXYBOROXINE  
CA 93, 2010ORGAN, LIQUIDNO D 1.2330 NO 76.0 04440444 T -0.  
C 3 H 9 B 3 O 6  
MW 173.56 MI 20.26 MA 0.0868 MD 3.85 EM 10.84 GR 4.64

DICHLOROBORYL HYDROSULFIDE-TRIMETHYLAMINE  
NACH 3989ORGAN, SOLIDCAL D 1.5018 NO2656.0 04444444 T -0.  
C 3 H 10 B 2 ICL 2 N 1 S 1  
MW 173.91 MI 18.17 MA 0.0945 MD 5.20 EM 199.91 GR 207.80

TRIMETHYLAMMONIUM TETACHLOROBORATE  
CA 54, 17132ORGAN, UNKNOWCAL D 1.6585 NO2657.0 04444444 T -0.  
C 3 H 10 B 4 ICL 4 N 1  
MW 212.77 MI 19.27 MA 0.0905 MD 4.70 EM 787.64 GR 364.80

BORON TRIFLUORIDE-1,3-DIANINOPROPANE  
CA 94, 8395ORGAN, UNKNOWCAL D 1.1867 NO2658.0 04444444 T -0.  
C 3 H 10 B 1 F 3 N 2  
MW 141.99 MI 19.41 MA 0.0977 MD 5.04 EM 11.16 GR 5.62

LITHIUM TRIMETHYLHYDROBORATE  
CA 47, 3741ORGAN, SOLIDCAL D 0.9011 NO2659.0 04114111 T 80.00  
C 3 H 10 B 1 Li 1  
MW 63.87 MI 14.41 MA 0.1225 MD 8.50 EM 8.86 GR 7.53

LITHIUM TRIMETHOXYBORATE  
AD118, 8590ORGAN, UNKNOWCAL D 1.2461 NO4180.0 04444444 T -0.  
C 3 H 10 B 1 Li 1 O 3  
MW 111.87 MI 17.38 MA 0.1166 MD 6.71 EM 8.86 GR 5.96

DIMETHYLBORANEDIMETHYLBORANE  
NACH 14130ORGAN, LIQUIDEST D 0.8400 NO 638.0 04444444 T -136.20  
C 3 H 10 B 1 N 1  
MW 70.94 MI 14.47 MA 0.1082 MD 7.13 EM 9.86 GR 7.03

A 39

DIMETHYLFLUOROBORANE-METHYLAMINE  
CA 46, 3443ORGAN, SOLIDCAL D 0.9108 NO2660.0 04444444 T -0.  
C 3 H 11 B 1 F 1 N 1  
MW 90.99 MI 16.76 MA 0.1011 MD 6.64 EM 10.67 GR 6.43

POTASSIUM AMMONIA-TRIMETHYLBORON  
CA 54, 20603ORGAN, SOLIDCAL D 1.1022 NO2667.0 04444444 T -0.  
C 3 H 11 B 1 K 1 N 1  
MW 111.05 MI 17.01 MA 0.1017 MD 6.58 EM 32.82 GR 19.64

TRIMETHYLBORANE-SODAMIDE  
CA 54, 7430ORGAN, SOLIDCAL D 1.0559 NO2668.0 04144444 T -0.  
C 3 H 11 B 1 N 1 MA 1  
MW 94.94 MI 16.68 MA 0.1117 MD 7.37 EM 14.49 GR 9.70

BORANE-ETHYL METHYL ETHER  
CA 50, 11870ORGAN, UNKNOWCAL D 0.8275 NO2669.0 04444444 T -0.  
C 3 H 11 B 1 O 1  
MW 73.94 MI 15.39 MA 0.1037 MD 7.42 EM 9.91 GR 6.41

DIMETHYLHYDROBORATE-METHYLHYDROGENSULFIDE  
NACH 22342ORGAN, UNKNOWCAL D 0.9856 NO2670.0 04444444 T -0.  
C 3 H 11 B 1 S 1  
MW 90.80 MI 15.70 MA 0.1036 MD 7.26 EM 10.27 GR 6.77

AZETIDINEDIBORANE  
AD 98, 3840ORGAN, LIQUIDCAL D 0.8809 NO4183.0 04444444 T -45.00  
C 3 H 11 B 2 N 1  
MW 82.77 MI 16.44 MA 0.1054 MD 7.05 EM 11.98 GR 7.68

AZETIDINODIBORANE  
CA 50, 14753ORGAN, LIQUIDCAL D 0.8809 NO2671.0 04444444 T -45.30  
C 3 H 11 B 2 N 1  
MW 82.77 MI 16.44 MA 0.1054 MD 7.05 EM 11.98 GR 7.68

BORANE-PROPYLAMINE  
PB 1, 18944ORGAN, SOLIDEST D 0.8400 NO 642.0 04444411 T 45.00  
C 3 H 12 B 1 N 1  
MW 72.96 MI 16.47 MA 0.1142 MD 8.32 EM 11.32 GR 7.89

METHYLBORANE-DIMETHYLAMINE  
GM 13, 2380ORGAN, UNKNOWEST D 0.8400 NO 643.0 04444411 T -0.  
C 3 H 12 B 1 N 1  
MW 72.96 MI 16.47 MA 0.1142 MD 8.32 EM 11.32 GR 7.89

BORANE-TRIMETHYLAMINE  
GM 13, 2380ORGAN, SOLIDEST D 0.8400 NO 644.0 04444410 T 94.00  
C 3 H 12 B 1 N 1  
MW 72.96 MI 16.47 MA 0.1142 MD 8.32 EM 11.32 GR 7.89

A 38

SODIUM TRIMETHYLHYDROBORATE  
NACH 122342ORGAN, SOLIDCAL D 1.0486 NO2661.0 04444444 T -0.  
C 3 H 10 B 1 Na 1  
MW 79.92 MI 14.61 MA 0.1154 MD 7.90 EM 12.67 GR 10.01

SODIUM TRIMETHOXYHYDROBORATE  
CA 47, 3741ORGAN, SOLIDCAL D 1.3447 NO2662.0 04414444 T 230.00  
C 3 H 10 B 1 Na 1 O 3  
MW 127.92 MI 17.58 MA 0.1113 MD 6.33 EM 12.68 GR 8.03

METHYLETHYLPHOSPHINOBORANE  
AD142, 0280ORGAN, LIQUIDCAL D 1.0542 NO4181.0 04444444 T -2.00  
C 3 H 10 B 1 P 1  
MW 87.91 MI 14.73 MA 0.1064 MD 7.22 EM 10.60 GR 7.66

METHYLPHOSPHINODIMETHYLBORINE  
AD142, 0280ORGAN, LIQUIDCAL D 1.0542 NO4182.0 04444444 T -0.  
C 3 H 10 B 1 P 1  
MW 87.91 MI 14.73 MA 0.1064 MD 7.22 EM 10.60 GR 7.66

METHYLPHOSPHINODIMETHYLBORINE POLYMER  
AD142, 0280ORGAN, LIQUIDCAL D 1.0542 NO4243.0 04000410 T -0.  
C 3 H 10 B 1 P 1  
MW 87.91 MI 14.73 MA 0.1379 MD 9.34 EM 10.60 GR 9.90

2,4-DIFLUORO-1,3,5-TRIMETHYLBORAZINE  
NACH 49916ORGAN, UNKNOWCAL D 1.2618 NO2663.0 04444444 T -0.  
C 3 H 10 B 3 F 2 N 3  
MW 158.60 MI 21.13 MA 0.1019 MD 4.79 EM 14.95 GR 7.16

BISBORON TRIFLUORIDE-1,3-DIANINOPROPANE  
CA 94, 8395ORGAN, UNKNOWEST D 1.4600 NO 640.0 04444444 T -0.  
C 3 H 10 B 2 F 6 N 2  
MW 209.77 MI 24.25 MA 0.1017 MD 4.19 EM 12.77 GR 5.35

DIMETHYLCHLOROBORANE-METHYLAMINE  
GM 13, 2380ORGAN, UNKNOWEST D 1.0000 NO 641.0 04444444 T -0.  
C 3 H 11 B 1 ICL 1 N 1  
MW 107.41 MI 16.67 MA 0.0939 MD 6.17 EM 205.04 GR 114.99

N-TRIMETHYL-B-MONODICHLOROBORAZENE  
CA 59, 4343ORGAN, SOLIDCAL D 1.0907 NO2664.0 04444444 T 85.00  
C 3 H 11 B 1 ICL 1 N 1  
MW 107.41 MI 16.67 MA 0.0982 MD 6.48 EM 205.04 GR 120.82

N-TRIMETHYL-B-MONODIFLUOROBORAZENE  
CA 59, 4343ORGAN, SOLIDCAL D 0.9108 NO2665.0 04444444 T 142.00  
C 3 H 11 B 1 F 1 N 1  
MW 90.91 MI 16.76 MA 0.1011 MD 6.64 EM 10.67 GR 6.43

A 40

DIMETHYLBORANE-METHYLAMINE  
GM 13, 2380ORGAN, UNKNOWEST D 0.8400 NO 645.0 04444411 T -0.  
C 3 H 12 B 1 N 1  
MW 72.96 MI 16.47 MA 0.1142 MD 8.32 EM 11.32 GR 7.89

TRIMETHYLBORANE-AMMONIA  
CA 49, 7420ORGAN, SOLIDCAL D 0.7446 NO2672.0 04444444 T 74.00  
C 3 H 12 B 1 N 1  
MW 72.96 MI 16.47 MA 0.1013 MD 7.38 EM 11.32 GR 6.96

BORANE-ISOPROPYLAMINE  
CA 54, 19222ORGAN, SOLIDEST D 0.8300 NO1977.0 04444411 T 85.00  
C 3 H 12 B 1 N 1  
MW 72.96 MI 16.47 MA 0.1156 MD 8.42 EM 11.32 GR 7.95

BORANE-ISOPROPYLAMINE  
CA 59, 3433ORGAN, UNKNOWCAL D 0.7446 NO2673.0 04444444 T -0.  
C 3 H 12 B 1 N 1  
MW 72.96 MI 16.47 MA 0.1013 MD 7.38 EM 11.32 GR 6.96

BORANE-METHOXYDIMETHYLAMINE  
CA 50, 18504ORGAN, LIQUIDCAL D 0.8444 NO2674.0 04444444 T -16.80  
C 3 H 12 B 1 N 1 O 1  
MW 88.96 MI 17.66 MA 0.0998 MD 6.86 EM 11.33 GR 6.48

DIMETHYLIMINODIMETHYLPHOSPHINE-BORINE  
CA 54, 20844ORGAN, LIQUIDCAL D 0.9801 NO2677.0 04444444 T 12.00  
C 3 H 12 B 1 N 1 P 1  
MW 103.93 MI 17.80 MA 0.1011 MD 6.82 EM 13.15 GR 7.47

DIMETHYL METHYLBORONATE-AMMONIA  
CA 51, 4938ORGAN, SOLIDCAL D 0.9312 NO2675.0 04444444 T -0.  
C 3 H 12 B 1 N 1 O 3  
MW 104.96 MI 18.45 MA 0.0986 MD 6.41 EM 11.33 GR 6.05

METHYL BORATE-AMMONIA  
GM 13, 2290ORGAN, SOLIDCAL D 1.0073 NO2676.0 04444444 T 72.00  
C 3 H 12 B 1 N 1 O 3  
MW 120.96 MI 19.44 MA 0.0975 MD 6.02 EM 11.33 GR 5.68

TRIS(METHYLAMINO)BORINE  
CA 54, 6378ORGAN, UNKNOWEST D 0.8500 NO 646.0 04444444 T -0.  
C 3 H 12 B 1 N 3  
MW 100.97 MI 18.61 MA 0.0944 MD 6.08 EM 13.48 GR 6.84

BORANE-TRIMETHOXYPHOSPHINE  
AD252, 0940ORGAN, UNKNOWCAL D 1.1607 NO4298.0 04444444 T -0.  
C 3 H 12 B 1 O 3 P 1  
MW 137.92 MI 19.70 MA 0.0949 MD 6.08 EM 12.07 GR 6.12

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## DORANE-TRIMETHOXYPHOSPHINE

CA 55, 5416ORGAN, LIQUIDICAL D 1.1607 NO2678.0 04444444 T -0.  
C 3 H 12 B 1 O 3 P 1  
Mw 137.92 MI 19.70 MA 0.0999 MD 6.08 EM 12.07 GR 6.12

## DORANE-ETHYL METHYLPHOSPHINE

CA 54, 5463ORGAN, UNKNOWNCAL D 0.4297 NO2679.0 04444444 T -0.  
C 3 H 12 B 1 P 1  
Mw 89.92 MI 16.73 MA 0.1042 MD 7.47 EM 12.07 GR 7.52

## DORANE-TRIMETHYLPHOSPHINE

CA 55, 1444ORGAN, SOLIDICAL D 0.9297 NO2680.0 04444444 T 100.00  
C 3 H 12 B 1 P 1  
Mw 89.92 MI 16.73 MA 0.1042 MD 7.47 EM 12.07 GR 7.52

## TRIMETHYLSILYLPHOSPHINOBORANE POLYMER

AD252, 0940ORGAN, SOLPOLCAL D 1.4699 NO4275.0 04440411 T 90.00  
C 3 H 12 B 1 P 1  
Mw 118.01 MI 17.99 MA 0.1350 MD 9.00 EM 12.85 GR 9.64

## TRIMETHYLBORANE

CA 54, 2439ORGAN, LIQUIDICAL D 0.7642 NO2681.0 04444444 T -0.  
C 3 H 12 B 2  
Mw 69.77 MI 16.37 MA 0.1080 MD 7.92 EM 11.64 GR 7.68

## PROPYLIDIBORANE

CA 52, 3074ORGAN, UNKNOWNCAL D 0.7042 NO2682.0 04444444 T -0.  
C 3 H 12 H 2  
Mw 69.77 MI 16.37 MA 0.1080 MD 7.92 EM 11.64 GR 7.68

## 1,3-TRIMETHYLENE-P-PHINE-BISPHOSPHINE BORINEI

CA 54, 2007ORGAN, SOLIDICAL D 1.2260 NO4386.0 04444444 T 95.50  
C 3 H 12 B 2 P 2  
Mw 131.72 MI 19.03 MA 0.1067 MD 6.75 EM 15.28 GR 8.97

## TRISIMETHYL BORON OXIDE-AMMONIA

GM 13, 2231ORGAN, SOLIDICAL D 1.1373 NO2683.0 04444444 T -0.  
C 3 H 12 B 3 N 1 O 3  
Mw 142.60 MI 21.36 MA 0.1027 MD 5.76 EM 14.11 GR 6.78

## 1,3,9-TRIMETHYLBORAZINE

GM 13, 2430ORGAN, LIQUIDEST D 0.8300 MD 647.0 04444444 T -0.  
C 3 H 12 B 3 N 3  
Mw 122.61 MI 20.55 MA 0.0838 MD 4.89 EM 16.27 GR 6.63

## 2,4,6-TRIMETHYLBORAZINE

GM 13, 2420ORGAN, SOLIDEST D 0.8300 MD 648.0 04444444 T -0.  
C 3 H 12 B 3 N 1  
Mw 122.61 MI 20.55 MA 0.0838 MD 4.89 EM 16.27 GR 6.63

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## BERYLLIUM PENTAYDROBORATE-TRIMETHYLAMINE

CA 35, 9970ORGAN, UNKNOWNCAL D 0.7831 NO2688.0 04444444 T -0.  
C 3 H 14 B 1 BE 1 N 1  
Mw 83.99 MI 19.54 MA 0.1097 MD 7.86 EM 12.85 GR 7.22

## BIBORANE-ETHYL METHYLETHEN

CA 52, 1937ORGAN, UNKNOWNCAL D 0.7836 NO2689.0 04444444 T -0.  
C 3 H 14 B 2 D 1  
Mw 87.78 MI 19.36 MA 0.1041 MD 7.53 EM 13.11 GR 7.05

## BORINE-TRISIMETHYLAMINOPHOSPHINE

AD240, 9120ORGAN, LIQUIDICAL D 0.8405 NO4446.0 04444444 T -0.  
C 3 H 15 B 1 N 1 P 1  
Mw 106.46 MI 20.80 MA 0.0994 MD 7.17 EM 15.35 GR 7.33

## TRISIMETHYL BORON OXIDE-BISAMMONIA

CA 34, 6540ORGAN, UNKNOWNCAL D 1.0318 NO2690.0 04444444 T -0.  
C 3 H 15 B 3 N 2 O 3  
Mw 159.63 MI 25.45 MA 0.0991 MD 5.84 EM 17.39 GR 6.77

## TRIBORANE-TRIMETHYLAMINE

CA 54, 2197ORGAN, SOLIDICAL D 0.7590 NO2691.0 04444444 T -0.  
C 3 H 16 B 3 N 1  
Mw 98.63 MI 22.41 MA 0.1039 MD 7.42 EM 17.04 GR 7.90

## BERYLLIUM OCTAYDROBORATE-TRIMETHYLAMINE

CA 35, 9970ORGAN, SOLIDICAL D 0.7152 NO2692.0 04444444 T 35.00  
C 3 H 17 B 2 BE 1 N 1  
Mw 97.83 MI 23.91 MA 0.1035 MD 7.49 EM 16.45 GR 7.24

## MAGNESIUM TETRAYDROBORATE-TRIMETHYLAMINE

CA 40, 4412ORGAN, SOLIDICAL D 0.7959 NO2693.0 04444444 T -0.  
C 3 H 17 B 2 MG 1 N 1  
Mw 113.14 MI 23.66 MA 0.1003 MD 7.20 EM 16.92 GR 7.17

## METHYLAMINOBORANE TRIMER

NACM, 4787ORGAN, SOLIDEST D 0.8300 MD 655.0 04444444 T -0.  
C 3 H 18 B 3 N 3  
Mw 128.66 MI 26.55 MA 0.1032 MD 6.99 EM 20.67 GR 8.03

## BORAZINE-TRIMETHANOL

CA 53, 1107ORGAN, UNKNOWNCAL D 0.9599 NO2694.0 04444444 T -0.  
C 3 H 18 B 3 N 3 O 3  
Mw 176.66 MI 29.52 MA 0.0966 MD 5.89 EM 20.67 GR 7.77

## TRIMETHYLAMMONIUMTETRABORANE-CHLORIDE

AD232, 8920ORGAN, SOLIDICAL D 0.9368 NO4449.0 04444444 T -0.  
C 3 H 18 B 4 N 1  
Mw 146.92 MI 26.58 MA 0.1021 MD 6.91 EM 214.35 GR 82.32

A 42

## HEXAYDRODITRIMETHYL-5-TRIAZATRIBORINE

CA 32, 6570ORGAN, UNKNOWNEST D 0.8300 MD 649.0 04444444 T -0.  
C 3 H 12 B 3 N 3  
Mw 122.61 MI 20.55 MA 0.0838 MD 4.89 EM 16.27 GR 6.63

## 2,4,6-TRIMETHYLBORAZINE

CA 53, 1107ORGAN, SOLIDEST D 1.0000 MD 650.0 04444444 T 64.00  
C 3 H 12 B 3 N 3 O 3  
Mw 170.61 MI 23.52 MA 0.0830 MD 4.24 EM 16.27 GR 5.74

## TRISIMETHYLAMINODIBORAZINE

CA 49, 1559ORGAN, UNKNOWNCAL D 1.4593 NO2684.0 04444444 T -0.  
C 3 H 12 B 3 N 3 S 3  
Mw 218.79 MI 24.45 MA 0.0982 MD 4.82 EM 16.54 GR 7.45

## 4-DITHIOBORIC ACID-3-CALCIUM CARBONATE

CA 54, 9490ORGAN, SOLIDICAL D 2.1560 NO2685.0 04444444 T -0.  
C 3 H 12 H 4 CA 3 D 21  
Mw 547.65 MI 43.84 MA 0.1040 MD 2.85 EM 26.43 GR 6.27

## N-DIMETHYL-N-MONOMETHYLBORAZOLE

GM 13, 2440ORGAN, LIQUIDICAL D 1.1011 NO2686.0 04444444 T -0.  
C 3 H 12 B 3 N 3 S 3  
Mw 147.44 MI 22.59 MA 0.1016 MD 5.40 EM 18.74 GR 8.43

## LITHIUM TETRAYDROBORATE-TRIMETHYLAMINE

CA 51, 1210ORGAN, UNKNOWNCAL D 0.8432 NO2687.0 04444444 T -0.  
C 3 H 13 H 1 Li 1 N 1  
Mw 80.40 MI 18.48 MA 0.1160 MD 8.16 EM 12.14 GR 7.62

## TRIMETHYL SULFONUM BORONHYDRIDE

CA 54, 1289ORGAN, UNKNOWNEST D 0.8500 MD 652.0 04444444 T -0.  
C 3 H 13 B 1 S 1  
Mw 92.02 MI 17.70 MA 0.0985 MD 7.23 EM 11.74 GR 6.93

## PROPYLAMINODIBORANE

PB 1,1854ORGAN, LIQUIDEST D 0.6800 MD 653.0 04444444 T -145.00  
C 3 H 15 B 2 N 1  
Mw 84.78 MI 18.44 MA 0.0885 MD 6.10 EM 13.45 GR 6.31

## METHYL BORATE-AMINOBORONIC ACID

GM 13, 2220ORGAN, UNKNOWNCAL D 1.1433 NO4093.0 04444444 T -0.  
C 3 H 13 B 2 N 1 O 5  
Mw 164.78 MI 23.39 MA 0.0977 MD 5.43 EM 13.46 GR 5.62

## TRIMETHYLAMINOTETRABORANE POLYMER

JACS 79, 2129ORGAN, SOLPOLCAL D 1.2216 NO4126.0 04000410 T -0.  
C 3 H 13 B 4 N 1  
Mw 106.42 MI 20.38 MA 0.1404 MD 8.99 EM 16.23 GR 11.77

A 44

## PENTABORANE-TRIMETHYLAMINE

CA 52, 1086ORGAN, UNKNOWNCAL D 0.8231 NO2695.0 04444444 T -0.  
C 3 H 14 B 5 N 1  
Mw 122.28 MI 26.35 MA 0.1088 MD 7.30 EM 21.29 GR 8.63

## TRIMETHYL DECARBORANE

AD237, 1760ORGAN, SOLIDICAL D 1.0351 NO4490.0 04444444 T -0.  
C 3 H 20 B 10  
Mw 164.34 MI 32.13 MA 0.1242 MD 7.73 EM 28.64 GR 11.07

## DECABORANE-ACETONE

AD231, 4230ORGAN, UNKNOWNCAL D 1.1086 NO4184.0 04444444 T -0.  
C 3 H 20 B 10 O 3  
Mw 180.39 MI 33.12 MA 0.1226 MD 7.40 EM 28.64 GR 10.60

## PROPOXYDECABORANE

CA 54, 10833ORGAN, UNKNOWNCAL D 1.1086 NO2696.0 04444444 T -0.  
C 3 H 20 B 10 O 3  
Mw 180.39 MI 33.12 MA 0.1226 MD 7.40 EM 28.64 GR 10.60

## TRIMETHYL ALUMINIUM TRIBOROHYDRIDE-AMMONIA

CA 35, 9950ORGAN, UNKNOWNCAL D 0.8222 NO2697.0 04444444 T -0.  
C 3 H 21 Al 1 B 3 N 1  
Mw 130.65 MI 28.72 MA 0.1089 MD 7.96 EM 22.71 GR 8.61

## BORON TRICHLORIDE-METHYL CYANIDE

CA 45, 8844ORGAN, SOLIDICAL D 1.5831 NO2698.0 04444444 T -0.  
C 4 H 3 B 1 Cl 3 N 1  
Mw 182.27 MI 11.88 MA 0.0627 MD 1.57 EM 58.07 GR 307.67

## N-TRICHLORODIMETHYLPHOSPHINE

CA 51, 11072ORGAN, UNKNOWNEST U 1.1500 MD 656.0 04444444 T -0.  
C 4 H 4 B 1 Cl 2 N 1  
Mw 147.82 MI 11.68 MA 0.0547 MD 1.87 EM 374.36 GR 184.80

## TRICHLOROMETHYL 1,2,3-DIOXABOROLANE-2-CARBOXYLATE

CA 54, 10510ORGAN, UNKNOWNCAL D 1.4303 NO2699.0 04444444 T -0.  
C 4 H 4 B 1 Cl 3 O 4  
Mw 233.27 MI 15.77 MA 0.0603 MD 1.53 EM 587.74 GR 224.65

## CHLORODI(2-CHLOROVINYLBORANE)

CA 46, 2999ORGAN, UNKNOWNCAL D 1.2759 MD 156.0 04444444 T -0.  
C 4 H 4 B 1 Cl 3  
Mw 169.27 MI 11.81 MA 0.0536 MD 1.82 EM 587.73 GR 266.85

## CHLORODI(2,2,2-TRICHLOROETHOXYBORINE)

CA 52, 1954ORGAN, UNKNOWNCAL D 1.6871 NO2700.0 04444444 T -0.  
C 4 H 4 B 1 Cl 7 O 2  
Mw 343.09 MI 18.59 MA 0.0551 MD 1.18 EM 1365.52 GR 404.45

A 43

ETHYLENE TRIFLUOROACETYLBOATE  
CA 54.17255ORGAN. LIQUIDICAL D 1.2565 NO2701.0 04444444 T -0.  
C 4 H 4 B 1 F 3 O 4  
MW 183.90 MI 16.04 MA 0.0660 MD 1.65 EM 4.62 GR 1.90

TRIFLUOROMETHYL 1,3,2-DIOXABOROLANE-2-CARBOXYLATE  
CA 54.10513ORGAN. UNKNOWCAL D 1.2565 NO2702.0 04444444 T -0.  
C 4 H 4 B 1 F 3 O 4  
MW 183.90 MI 16.04 MA 0.0660 MD 1.65 EM 4.62 GR 1.90

1,4-BIS(DICHLORODORONYL)BUTADIENE  
AD 444.706ORGAN. LIQUIDICAL D 1.8058 NO4431.0 04444444 T -0.  
C 4 H 4 B 8 ACL 8  
MW 379.01 MI 20.72 MA 0.0595 MD 1.15 EM1564.13 GR 448.87

DI-12-CHLOROVINYLHYDROXYBORANE  
CA 46.29950ORGAN. UNKNOWKNO D 1.2822 NO 157.0 04444444 T -0.  
C 4 H 5 B 1 CL 2 O 1  
MW 150.82 MI 12.60 MA 0.0645 MD 2.56 EM 394.02 GR 201.77

DICHLOROMETHYL 1,3,2-DIOXABOROLANE-2-CARBOXYLATE  
CA 54.10513ORGAN. UNKNOWCAL D 1.5009 NO2703.0 04444444 T -0.  
C 4 H 5 B 1 CL 2 O 4  
MW 198.82 MI 15.37 MA 0.0708 MD 2.27 EM 394.02 GR 179.17

NONION TRICHLORIDE-(12,2,2-TRICHLOROETHYLACETATE)  
CA 52.19560ORGAN. UNKNOWCAL D 1.7876 NO2704.0 04444444 T -0.  
C 4 H 5 B 8 ICL 6 O 2  
MW 308.65 MI 18.39 MA 0.0642 MD 1.74 EM171.80 GR 408.80

3-THIOPHENEBOIRONIC ACID  
CA 52.11360ORGAN. LIQUIDICAL D 1.3525 NO2705.0 04444444 T 163.00  
C 4 H 5 S 1 O 2 S 1  
MW 127.96 MI 12.49 MA 0.0795 MD 3.18 EM 5.89 GR 3.75

2-THIOPHENEBOIRONIC ACID  
CA 52.11360ORGAN. LIQUIDICAL D 1.3525 NO2706.0 04444444 T 133.00  
C 4 H 5 S 1 O 2 S 1  
MW 127.96 MI 12.49 MA 0.0795 MD 3.18 EM 5.89 GR 3.75

DIVINYLBORON CHLORIDE  
CA 54.26390ORGAN. UNKNOWCAL D 1.1727 NO2707.0 04444444 T -0.  
C 4 H 6 B 1 CL 1  
MW 100.37 MI 11.41 MA 0.0803 MD 4.22 EM 200.31 GR 140.97

ETHYLENE CHLOROACETYLBOATE  
CA 54.17255ORGAN. UNKNOWCAL D 1.2987 NO2708.0 04444444 T -0.  
C 4 H 6 B 1 CL 1 U 4  
MW 164.37 MI 15.37 MA 0.0731 MD 2.86 EM 200.31 GR 95.33

A 47

BORON TRICHLORIDE-BUTYRONITRILE  
CA 54.20700ORGAN. UNKNOWCAL D 1.4650 NO2714.0 04444444 T -0.  
C 4 H 7 B 1 CL 3 N 1  
MW 186.30 MI 19.88 MA 0.0754 MD 3.32 EM 591.01 GR 280.70

BORON TRICHLORIDE-2-CHLOROETHYL ACETATE  
CA 52.19540ORGAN. UNKNOWCAL D 1.6218 NO2715.0 04444444 T -0.  
C 4 H 7 B 1 CL 4 O 2  
MW 239.75 MI 17.99 MA 0.0734 MD 2.86 EM 784.18 GR 319.99

BORON TRIFLUORIDE-BUTYRONITRILE  
CA 52.19450ORGAN. UNKNOWCAL D 1.1626 NO2716.0 04444444 T -0.  
C 4 H 7 B 1 F 3 N 1  
MW 136.93 MI 18.15 MA 0.0826 MD 3.58 EM 7.89 GR 4.04

CYCLOC-2-METHYL-1,3-DIOXOLENIUM TETRAFLUOROBORATE  
CA 53.18840ORGAN. UNKNOWCAL D 1.2827 NO2719.0 04444444 T -0.  
C 4 H 7 O 1 F 4 U 2  
MW 173.92 MI 18.35 MA 0.0815 MD 3.11 EM 6.89 GR 3.06

ETHYLENE ACETYLBOATE  
CA 54.17255ORGAN. LIQUIDICAL D 1.1731 NO2717.0 04444444 T 77.00  
C 4 H 7 B 1 O 4  
MW 129.92 MI 15.17 MA 0.0825 MD 3.81 EM 6.60 GR 3.59

METHYL 1,3,2-DIOXABOROLANE-2-CARBOXYLATE  
CA 54.10513ORGAN. UNKNOWCAL D 1.1731 NO2720.0 04444444 T -0.  
C 4 H 7 B 1 O 4  
MW 129.92 MI 15.17 MA 0.0825 MD 3.81 EM 6.60 GR 3.59

2-CHLORO-4-METHYL-1,3,2-DIOXABOROLANE  
CA 52.16387ORGAN. UNKNOWEST D 1.0200 NO 662.0 04444444 T -0.  
C 4 H 8 B 1 CL 1 O 2  
MW 134.88 MI 15.39 MA 0.0704 MD 3.66 EM 201.78 GR 92.25

DICHLORO(2-CHLOROETHYL)BORINE  
CA 54.19950ORGAN. UNKNOWEST D 1.2300 NO 663.0 04444444 T -0.  
C 4 H 8 B 1 CL 3  
MW 173.30 MI 15.81 MA 0.0676 MD 3.42 EM 590.66 GR 252.52

NONION TRICHLORIDE-BUTYLENE OXIDE  
CA 48.74710ORGAN. SOLIDEST D 1.2500 NO 664.0 04444444 T 65.00  
C 4 H 8 B 1 CL 3 O 1  
MW 189.30 MI 16.80 MA 0.0668 MD 3.18 EM 590.67 GR 234.93

DICHLORO(4-CHLOROBUTOXY)BORINE  
CA 50.77200ORGAN. UNKNOWKNO D 1.2540 NO 158.0 04444444 T -0.  
C 4 H 8 B 1 CL 3 O 1  
MW 189.30 MI 16.80 MA 0.0670 MD 3.19 EM 590.67 GR 235.68

A 46

CHLOROMETHYL 1,3,2-DIOXABOROLANE-2-CARBOXYLATE  
CA 54.10513ORGAN. UNKNOWCAL D 1.2787 NO2709.0 04444444 T -0.  
C 4 H 6 B 1 CL 3 O 4  
MW 164.37 MI 15.37 MA 0.0731 MD 2.86 EM 200.31 GR 95.33

1-CHLORO-2-BUTENYLOXY-DICHLOROBORANE  
CA 51.95210ORGAN. SOLIDEST D 1.3000 NO 657.0 04444444 T -0.  
C 4 H 6 B 1 CL 3 O 1  
MW 187.28 MI 16.80 MA 0.0619 MD 2.51 EM 589.20 GR 246.35

3-CHLORO-1-BUTENYLOXY-DICHLOROBORANE  
CA 51.95210ORGAN. SOLIDEST D 1.3000 NO 658.0 04444444 T -0.  
C 4 H 6 B 1 CL 3 O 1  
MW 187.28 MI 16.80 MA 0.0619 MD 2.51 EM 589.20 GR 246.35

BORON TRICHLORIDE-ETHYL DICHLOROACETATE  
CA 52.19540ORGAN. UNKNOWCAL D 1.6443 NO2710.0 04444444 T -0.  
C 4 H 6 B 1 CL 3 O 2  
MW 274.20 MI 18.19 MA 0.0657 MD 2.17 EM 978.09 GR 353.30

BORON TRIFLUORIDE-GAMMA-BUTYROLACTONE  
CA 50.16783ORGAN. SOLIDEST D 1.3000 NO 659.0 04444444 T -0.  
C 4 H 6 B 1 F 3 O 2  
MW 153.91 MI 16.06 MA 0.0817 MD 3.09 EM 6.08 GR 3.10

BORON TRIFLUORIDE-ACETIC ANHYDRIDE  
GR 13.1860ORGAN. UNKNOWCAL D 1.2420 NO2711.0 04444444 T -0.  
C 4 H 6 B 1 F 3 O 3  
MW 169.21 MI 17.05 MA 0.0751 MD 2.64 EM 6.09 GR 2.68

CHLOROPYRROBIC ACID DIANHYDRIDE WITH ACETIC ACID  
CA 53.27850ORGAN. UNKNOWCAL D 1.4560 NO2712.0 04444444 T -0.  
C 4 H 6 B 2 CL 2 O 5  
MW 226.65 MI 18.53 MA 0.0717 MD 2.32 EM 396.15 GR 153.29

TETRAHYDRO-2-12-CHLOROVINYL-1,3,6,2-DIOXAZABOROCINE  
PE 14.7180ORGAN. LIQUIDICAL D 1.2125 NO2713.0 04444444 T 219.00  
C 4 H 7 B 1 CL 1 N 1 O 1  
MW 131.38 MI 14.47 MA 0.0804 MD 3.89 EM 792.12 GR 112.34

3-BUTENYLOXY DICHLOROBORANE  
CA 51.9112810ORGAN. LIQUIDEST D 1.1200 NO 660.0 04444444 T -0.  
C 4 H 7 B 1 CL 2 O 1  
MW 152.83 MI 14.60 MA 0.0644 MD 3.09 EM 395.49 GR 174.57

DICHLORO(2-METHYLAETHYLOXY)BORANE  
CA 51.29370ORGAN. UNKNOWEST D 1.1200 NO 661.0 04444444 T -0.  
C 4 H 7 B 1 CL 2 O 1  
MW 152.83 MI 14.60 MA 0.0644 MD 3.09 EM 395.49 GR 174.57

A 48

CHLOROMIS(2-CHLOROETHYL)BORINE  
CA 46.24820ORGAN. UNKNOWKNO D 1.2770 NO 159.0 04444444 T -0.  
C 4 H 8 B 1 CL 3 U 2  
MW 205.30 MI 17.79 MA 0.0667 MD 3.00 EM 590.67 GR 221.30

BORON TRICHLORIDE-ETHYLACETATE  
CA 53.29500ORGAN. UNKNOWEST D 1.2800 NO 665.0 04444444 T -0.  
C 4 H 8 B 1 CL 3 O 2  
MW 205.30 MI 17.79 MA 0.0668 MD 3.00 EM 590.67 GR 221.82

BORON TRICHLORIDE-DIOXANE  
CA 46.44130ORGAN. UNKNOWEST D 1.2800 NO 666.0 04444444 T -0.  
C 4 H 8 B 1 CL 3 O 2  
MW 205.30 MI 17.79 MA 0.0668 MD 3.00 EM 590.67 GR 221.82

BORON TRICHLORIDE-10(12-2-CHLOROETHYL)ETHER  
CA 51.94750ORGAN. SOLIDICAL D 1.9315 NO2721.0 04444444 T 65.50  
C 4 H 8 B 1 CL 4 O 1  
MW 224.76 MI 18.00 MA 0.0739 MD 3.28 EM 785.11 GR 322.24

BORON TRIFLUORIDE-(12-BUTANONE)  
CA 47.91270ORGAN. UNKNOWEST D 1.2600 NO 667.0 04444444 T -0.  
C 4 H 8 B 1 F 3 O 1  
MW 139.93 MI 17.07 MA 0.0926 MD 4.34 EM 7.55 GR 4.10

BORON TRIFLUORIDE-TETRAHYDROFURAN  
CA 52.19370ORGAN. LIQUIDICAL D 1.1304 NO2718.0 04444444 T 11.00  
C 4 H 8 B 1 F 3 O 1  
MW 139.93 MI 17.07 MA 0.0831 MD 3.89 EM 7.55 GR 3.67

TETRAHYDROFURAN-BORONTRIFLUORIDE  
GR 13.1860ORGAN. LIQUIDEST D 1.2600 NO 668.0 04444444 T 9.00  
C 4 H 8 B 1 F 3 O 1  
MW 139.93 MI 17.07 MA 0.0926 MD 4.34 EM 7.55 GR 4.10

BORON TRIFLUORIDE-ISOPROPYL METHYL ETHER  
CA 47.91270ORGAN. SOLIDEST D 1.2600 NO 669.0 04444444 T 93.50  
C 4 H 8 B 1 F 3 O 1  
MW 139.93 MI 17.07 MA 0.0926 MD 4.34 EM 7.55 GR 4.10

BORON TRIFLUORIDE-ETHYL ACETATE  
CA 53.21070ORGAN. SOLIDKNO D 1.2760 NO 70.0 04444444 T 32.50  
C 4 H 8 B 1 F 3 O 2  
MW 155.93 MI 18.06 MA 0.0890 MD 3.44 EM 7.55 GR 3.72

BORON TRIFLUORIDE-METHYL PROPIONATE  
CA 48.74710ORGAN. SOLIDEST D 1.2600 NO 670.0 04444444 T 93.50  
C 4 H 8 B 1 F 3 O 2  
MW 155.93 MI 18.06 MA 0.0879 MD 3.89 EM 7.55 GR 3.68

A 49

## BORON TRIFLUORIDE-BISACETIC ACID

CA 53. 4177ORGAN, UNKNOWN CAL D 1.2361 NO2723.0 04444444 T -0.  
C 4 H 8 B 1 F 3 O 1  
MW 187.93 MI 20.04 MA 0.0794 HD 3.17 EM 7.55 GR 2.99

## BORON TRIFLUORIDE-TETRAHYDROTHIOPHENE

CA 53. 21317ORGAN, UNKNOWN CAL D 1.2351 NO2723.0 04444444 T -0.  
C 4 H 8 B 1 F 3 S 1  
MW 155.99 MI 17.38 MA 0.0829 HD 3.82 EM 8.31 GR 3.96

## METHYLENETHYLITRIUM TETRAFLUOROBORATE

CA 50. 14772ORGAN, UNKNOWN CAL D 1.1439 NO2724.0 04444444 T -0.  
C 4 H 8 B 1 F 4 N 1  
MW 156.94 MI 18.44 MA 0.0810 HD 3.51 EM 8.70 GR 3.82

## SODIUM DIMETHOXYFORMYLBORATE

CA 53. 4998ORGAN, UNKNOWN CAL D 1.2651 NO2725.0 04444444 T -0.  
C 4 H 8 B 1 INR 1 O 6  
MW 185.92 MI 19.36 MA 0.0793 HD 3.28 EM 11.23 GR 4.60

## LITHIUMETHYLENEBIS(DICHLOROSILOXANE)

CA 54. 8002ORGAN, LIQUID CAL D 1.5602 NO2726.0 04444444 T -0.  
C 4 H 8 B 2 CL 4  
MW 219.58 MI 17.98 MA 0.0770 HD 3.42 EM 786.50 GR 336.63

## 2,1-BIS(DICHLOROSILOXY)BUTANE

CA 54. 22726ORGAN, LIQUID CAL D 1.5602 NO2727.0 04444444 T -44.80  
C 4 H 8 B 2 CL 4  
MW 219.58 MI 17.98 MA 0.0770 HD 3.42 EM 786.50 GR 336.63

## 2,1-BIS(DIFLUOROSILOXY)BUTANE

CA 54. 22326ORGAN, LIQUID CAL D 1.1949 NO2728.0 04444444 T -0.  
C 4 H 8 B 2 F 4  
MW 153.75 MI 18.34 MA 0.0859 HD 3.74 EM 9.01 GR 4.22

## BORON TRIFLUORIDE-ISOPROPYL METHYL ETHER

CA 52. 19379ORGAN, LIQUID CAL D 1.2493 NO2729.0 04444444 T -33.00  
C 4 H 8 B 2 F 6 O 1  
MW 207.75 MI 21.91 MA 0.0825 HD 3.01 EM 9.16 GR 3.45

## BISBORON TRIFLUORIDE-METHYL PROPYL ETHER

CA 52. 19379ORGAN, LIQUID CAL D 1.2493 NO2730.0 04444444 T -28.00  
C 4 H 8 B 2 F 6 O 1  
MW 207.75 MI 21.91 MA 0.0825 HD 3.01 EM 9.16 GR 3.45

## METHYL PROPIONATE-BISBORON TRIFLUORIDE

CA 48. 7471ORGAN, LIQUID CAL D 1.3716 NO2731.0 04444444 T 116.00  
C 4 H 8 B 2 F 6 O 2  
MW 273.75 MI 22.90 MA 0.0814 HD 2.85 EM 9.17 GR 3.26

A 51

## BORON TRICHLORIDE-N-DIMETHYLACETAMIDE

CA 54. 18147ORGAN, LIQUID CAL D 1.4124 NO2732.0 04444444 T 100.00  
C 4 H 8 B 3 CL 3 N 1 O 1  
MW 204.31 MI 18.87 MA 0.0786 HD 3.75 EM 592.48 GR 246.79

## BORON TRICHLORIDE-TRIMETHYLSILYL CYANIDE

AD292. 0949ORGAN, UNKNOWN CAL D 1.5005 NO2733.0 04444444 T -0.  
C 4 H 8 B 3 CL 3 N 1 S 1  
MW 170.61 MI 19.14 MA 0.0799 HD 3.76 EM 503.26 GR 247.80

## BISBORON TRICHLORIDE-1,2-DICHLOROETHYL ETHER

CA 51. 9475ORGAN, LIQUID CAL D 1.5709 NO2733.0 04444444 T 19.00  
C 4 H 8 B 2 CL 4 O 1  
MW 225.75 MI 19.00 MA 0.0781 HD 3.79 EM 785.84 GR 323.06

## BUTYLDIFLUOROBORINE

CA 50. 4772ORGAN, LIQUID KNO D 0.8510 NO 162.0 -1. 11 T -74.00  
C 4 H 8 B 2 F 2  
MW 105.94 MI 15.79 MA 0.0764 HD 4.35 EM 8.21 GR 3.97

## ISOBUTYLDIFLUOROBORINE

CA 50. 152261ORGAN, LIQUID KNO D 0.9507 NO1798.0 04444444 T -0.  
C 4 H 8 B 2 F 2  
MW 105.94 MI 15.79 MA 0.0859 HD 4.90 EM 8.21 GR 4.47

## METHOXYDIFLUOROBORINE

CA 50. 1635ORGAN, LIQUID KNO D 1.1220 NO 163.0 04444444 T -0.  
C 4 H 8 B 2 F 2 O 1  
MW 121.94 MI 16.78 MA 0.0930 HD 4.99 EM 8.21 GR 4.35

## BORON TRIFLUORIDE-MORPHOLINE

CA 53. 37219ORGAN, LIQUID CAL D 1.2600 NO 677.0 04444444 T -0.  
C 4 H 8 B 1 F 3 N 1 O 1  
MW 154.94 MI 19.14 MA 0.0938 HD 4.41 EM 9.36 GR 4.59

## CYANODIFLUOROBORINE-TRIMETHYLSILYL FLUORIDE

AD252. 0960ORGAN, UNKNOWN CAL D 1.2311 NO4260.0 04444444 T -0.  
C 4 H 8 B 2 F 3 N 1 S 1  
MW 167.03 MI 19.41 MA 0.0862 HD 4.40 EM 10.14 GR 4.50

## BORON TRIFLUORIDE-BUTYL ETHER COMPLEX

CA 53. 5942ORGAN, UNKNOWN CAL D 1.2600 NO 678.0 04444444 T -0.  
C 4 H 8 B 1 F 3 O 1  
MW 140.94 MI 18.07 MA 0.0973 HD 4.85 EM 8.28 GR 4.46

## ISOBUTYLBUTANE

CA 50. 4772ORGAN, UNKNOWN CAL D 0.8500 NO 679.0 04444444 T -0.  
C 4 H 8 B 2 O 1  
MW 83.94 MI 14.20 MA 0.0866 HD 5.49 EM 8.06 GR 4.92

A 50

## ETHYLENE METHYLENE BORATE

CA 54. 10510ORGAN, UNKNOWN CAL D 0.9600 NO 671.0 04444444 T -0.  
C 4 H 8 B 2 O 1  
MW 173.75 MI 19.12 MA 0.0636 HD 2.66 EM 8.73 GR 2.90

## DIMETHYLVINYLBORINE

CA 52. 41424ORGAN, LIQUID CAL D 0.6500 NO 672.0 04444444 T -0.  
C 4 H 8 B 1  
MW 67.94 MI 13.21 MA 0.0761 HD 5.19 EM 8.06 GR 4.65

## BUTYLBORANE POLYMER

CA 47. 7434ORGAN, SOLID CAL D 1.0235 NO4127.0 04114111 T -0.  
C 4 H 8 B 1  
MW 67.94 MI 13.21 MA 0.1199 HD 8.17 EM 8.06 GR 7.31

## BUTYLDICHLOROBORINE

CA 52. 3672ORGAN, LIQUID CAL D 1.0000 NO 673.0 04144414 T -0.  
C 4 H 8 B 2 CL 2  
MW 138.85 MI 15.61 MA 0.0677 HD 3.90 EM 396.95 GR 172.70

## DICHLOROSUBUTYLBORANE

JACS 79. 5182ORGAN, LIQUID CAL D 1.0000 NO 674.0 04444444 T -0.  
C 4 H 8 B 2 CL 2  
MW 138.85 MI 15.61 MA 0.0677 HD 3.90 EM 396.95 GR 172.70

## SEC-BUTYLDICHLOROBORANE

JACS 79. 5182ORGAN, LIQUID CAL D 1.0000 NO 675.0 04444444 T -0.  
C 4 H 8 B 2 CL 2  
MW 138.85 MI 15.61 MA 0.0677 HD 3.90 EM 396.95 GR 172.70

## TERT-BUTYLDICHLOROBORANE

JACS 79. 5182ORGAN, LIQUID CAL D 1.0000 NO 676.0 04444444 T -0.  
C 4 H 8 B 2 CL 2  
MW 138.85 MI 15.61 MA 0.0677 HD 3.90 EM 396.95 GR 172.70

## BUTORYDICHLOOROBORINE

CA 50. 7710ORGAN, LIQUID KNO D 1.0790 NO 100.0 04444444 T -0.  
C 4 H 8 B 2 CL 2 O 1  
MW 154.85 MI 16.60 MA 0.0697 HD 3.78 EM 396.95 GR 166.61

## BUTORYDICHLOOROBORINE, ISOBUTYLDICHLOROBORINATE

CA 53. 1117ORGAN, LIQUID KNO D 1.0870 NO 81.0 04440444 T -0.  
C 4 H 8 B 2 CL 2 O 1  
MW 154.85 MI 16.60 MA 0.0676 HD 3.67 EM 396.95 GR 161.67

## DICHLOROSUBUTORYBORANE

CA 46. 7994ORGAN, LIQUID KNO D 1.0490 NO 181.0 04444444 T -0.  
C 4 H 8 B 2 CL 2 O 1  
MW 154.85 MI 16.60 MA 0.0677 HD 3.67 EM 396.95 GR 161.67

A 52

## BUTYL METABORATE

CA 53. 8610ORGAN, UNKNOWN CAL D 0.5500 NO 880.0 04444444 T -0.  
C 4 H 8 B 2 O 1  
MW 99.94 MI 15.19 MA 0.0870 HD 5.15 EM 8.06 GR 4.67

## DIHYDROXY(2-METHYL-1-PROPYNYL)BORANE

CA 48. 6955ORGAN, SOLID CAL D 1.0300 NO 681.0 04444444 T 85.00  
C 4 H 8 B 1 O 2  
MW 99.94 MI 15.19 MA 0.0961 HD 5.70 EM 8.06 GR 5.10

## ETHYL ETHYLENE BORATE

CA 52. 4472ORGAN, LIQUID CAL D 0.9200 NO 882.0 04444444 T -0.  
C 4 H 8 B 2 O 1  
MW 115.94 MI 16.18 MA 0.0773 HD 4.30 EM 8.07 GR 3.85

## CYCLIC ETHYLENE(2-HYDROXY ETHYL)BORATE

CA 52. 4472ORGAN, UNKNOWN CAL D 1.0943 NO2734.0 04444444 T -0.  
C 4 H 8 B 2 O 1  
MW 131.94 MI 17.17 MA 0.0858 HD 4.50 EM 8.07 GR 4.03

## METHOXYDICHLOOROBORANE-1,1-DIHYDROFURAN

CA 53. 7810ORGAN, LIQUID CAL D 0.9500 NO 684.0 04444444 T -47.00  
C 4 H 8 B 2 CL 2 O 1  
MW 120.40 MI 16.40 MA 0.0779 HD 4.74 EM 203.24 GR 46.59

## CHLORODIETHOXYBORINE

CA 13. 2490ORGAN, LIQUID KNO D 0.9720 NO 184.0 04444444 T -0.  
C 4 H 8 B 2 CL 2 O 2  
MW 136.40 MI 17.39 MA 0.0746 HD 4.29 EM 203.24 GR 47.17

## 14-CHLOROBUTYLBORONIC ACID

AD261. 2110ORGAN, LIQUID CAL D 1.1001 NO4657.0 04444444 T -0.  
C 4 H 8 B 2 CL 1 O 2  
MW 136.40 MI 17.39 MA 0.0845 HD 4.86 EM 203.24 GR 98.73

## CHLOROBIS(ETHYLMETHYL)BORINE

CA 53. 20808ORGAN, UNKNOWN CAL D 1.1092 NO2735.0 04444444 T -0.  
C 4 H 8 B 2 CL 1 S 2  
MW 168.52 MI 18.01 MA 0.0843 HD 4.68 EM 204.76 GR 95.81

## DEUTERIODICHLOROBORANE-DIMETHYL ETHER

CA 53. 9850ORGAN, UNKNOWN CAL D 1.1572 NO2736.0 04444444 T -0.  
C 4 H 8 B 2 CL 2 D 1  
MW 157.87 MI 18.48 MA 0.0916 HD 4.86 EM 397.69 GR 175.48

## DICHLORODIETHYLBORINATE

CA 13. 2530ORGAN, LIQUID CAL D 1.1500 NO 685.0 04444444 T -25.40  
C 4 H 8 B 2 CL 2 D 1  
MW 155.87 MI 17.68 MA 0.0794 HD 4.50 EM 398.77 GR 179.57



A 53

## DICHLORO(2-CHLOROETHYL)BORANE-DIMETHYL ETHER

CA 53, 9030ORGAN, SOLIDEST D 1.2300 NO 686.0 04444444 T -0.  
C 4 H 10 B 1 CL 3 O 1  
MW 191.31 MI 18.80 MA 0.0740 MD 3.94 EM 592.13 GR 233.06

## BORON TRICHLORIDE-DIETHYL ETHER

NACN 39119ORGAN, SOLIDEST D 1.2500 NO 687.0 04144444 T -0.  
C 4 H 10 B 1 CL 3 O 1  
MW 191.31 MI 18.80 MA 0.0740 MD 3.94 EM 592.13 GR 233.06

## DICHLORO(2-CHLOROETHYL)BORANE-DIETHYL ETHER

CA 52, 11734ORGAN, LIQUIDAND D 1.1721 NO 405.0 04444444 T -0.  
C 4 H 10 B 1 CL 3 O 1  
MW 219.40 MI 20.06 MA 0.0645 MD 3.22 EM 592.92 GR 190.79

## DIETHOXYBORANE-DEUTERIDE

CA 56, 11500ORGAN, UNKNOWCAL D 0.8650 NO2737.0 04444444 T -0.  
C 4 H 10 B 1 D 1 O 2  
MW 102.46 MI 17.07 MA 0.0864 MD 5.57 EM 8.80 GR 4.45

## DIETHOXYBORANE-DEUTERIDE

CA 13, 2400ORGAN, UNKNOWCAL D 1.0500 NO 688.0 04444444 T -0.  
C 4 H 10 B 1 F 1 O 2  
MW 119.94 MI 17.48 MA 0.0922 MD 5.27 EM 8.87 GR 4.68

## DICTHYLAMINO(2-FLUOROBORANE)

CA 51, 9476ORGAN, SOLIDEST D 1.1500 NO 689.0 04444444 T 65.50  
C 4 H 10 B 1 F 2 N 1  
MW 120.95 MI 17.86 MA 0.1023 MD 5.73 EM 10.02 GR 5.74

## BORON TRIFLUORIDE-METHYL PROPYL ETHER

CA 52, 19370ORGAN, LIQUIDAL D 1.0683 NO2738.0 04444444 T -49.00  
C 4 H 10 B 1 F 3 O 1  
MW 141.94 MI 19.07 MA 0.0865 MD 4.53 EM 9.02 GR 4.09

## BORON TRIFLUORIDE-DIETHYL ETHER

CA 46, 2420ORGAN, LIQUIDEST D 1.2500 NO 700.0 04444444 T -57.70  
C 4 H 10 B 1 F 3 O 1  
MW 141.94 MI 19.07 MA 0.1012 MD 5.30 EM 9.02 GR 4.78

## BORON TRIFLUORIDE-BUTYL ALCOHOL

CA 53, 14037ORGAN, UNKNOWCAL D 1.2500 NO 690.0 04444444 T -0.  
C 4 H 10 B 1 F 3 O 1  
MW 141.94 MI 19.07 MA 0.1012 MD 5.30 EM 9.02 GR 4.78

## BORON TRIFLUORIDE-ISOBUTYL ALCOHOL

CA 53, 14037ORGAN, UNKNOWCAL D 1.2500 NO 691.0 04444444 T -0.  
C 4 H 10 B 1 F 3 O 1  
MW 141.94 MI 19.07 MA 0.1012 MD 5.30 EM 9.02 GR 4.78

A 55

## BORANE-TRIMETHYLSILYLFLUORIDE

AD252, 0540ORGAN, SOLIDICAL D 0.9267 NO4261.0 04444444 T 69.00  
C 4 H 12 B 1 N 1 Si 1  
MW 113.06 MI 18.94 MA 0.0915 MD 5.92 EM 12.12 GR 5.94

## 2-DIMETHYLAMINO-1,3,2-DITHIABOROLANE

CA 53, 20104ORGAN, UNKNOWCAL D 1.1597 NO2743.0 04444444 T -0.  
C 4 H 10 B 1 N 1 S 2  
MW 147.07 MI 17.88 MA 0.0849 MD 4.75 EM 11.39 GR 5.41

## TETRAMETHYLENEPHOSPHINEBORANE

AD142, 0280ORGAN, SOLIDICAL D 0.9717 NO4189.0 04444444 T 169.00  
C 4 H 10 B 1 P 1  
MW 99.92 MI 15.36 MA 0.0910 MD 5.86 EM 10.62 GR 6.22

## DI-BORON TETRACHLORIDE-DIETHYL ETHER

CA 44, 82770ORGAN, LIQUIDAL D 1.3063 NO2745.0 04144444 T -0.  
C 4 H 10 B 2 CL 4 O 1  
MW 237.59 MI 20.97 MA 0.0801 MD 3.82 EM 787.97 GR 300.91

## DI-BORON TETRACHLORIDE-DIETHYL ETHER

CA 52, 18048ORGAN, UNKNOWCAL D 1.1736 NO2746.0 04444444 T -0.  
C 4 H 10 B 2 CL 4 O 1  
MW 171.76 MI 21.33 MA 0.0678 MD 4.12 EM 10.48 GR 4.31

## 2,4-DIETHYLMIDIO-1,3,2,4-DITHIO DIURETANE

CA 49, 13002ORGAN, LIQUIDAL D 1.4726 NO2747.0 04444444 T 4.00  
C 4 H 10 B 2 S 4  
MW 208.00 MI 20.38 MA 0.0869 MD 4.26 EM 13.22 GR 5.64

## BORON TRIFLUORIDE-ETHYL ETHER

CA 52, 19370ORGAN, LIQUIDAL D 1.3809 NO2748.0 04444444 T -29.00  
C 4 H 10 B 1 F 3 O 1  
MW 217.58 MI 20.75 MA 0.0861 MD 3.00 EM 12.24 GR 3.67

## ETHYLDIMETHYLBORANE

CA 52, 4476ORGAN, UNKNOWCAL D 0.6000 NO 697.0 04444444 T -0.  
C 4 H 11 B 1  
MW 69.95 MI 15.21 MA 0.0786 MD 5.68 EM 9.53 GR 4.92

## DICHLORO(2-CHLOROETHYL)BORANE-DIETHYL ETHER

CA 53, 7810ORGAN, LIQUIDEST D 1.1000 NO 698.0 04444444 T -27.50  
C 4 H 10 B 1 CL 3 O 1  
MW 190.87 MI 18.60 MA 0.0786 MD 4.55 EM 398.42 GR 168.29

## DICHLORO(2-ETHYLMIDIO)BORANE-HYDROCHLORIC ACID

CA 48, 25750ORGAN, UNKNOWCAL D 1.3246 NO2749.0 04444444 T 127.00  
C 4 H 11 B 1 CL 3 N 1  
MW 190.33 MI 19.88 MA 0.0833 MD 4.61 EM 993.95 GR 248.97

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## BORON TRIFLUORIDE-SEC-BUTYL ALCOHOL

CA 53, 14037ORGAN, UNKNOWCAL D 1.2500 NO 692.0 04444444 T -0.  
C 4 H 10 B 1 F 3 O 1  
MW 141.94 MI 19.07 MA 0.1012 MD 5.30 EM 9.02 GR 4.78

## BORON TRIFLUORIDE-ETHYL SULFIDE

CA 53, 21317ORGAN, UNKNOWCAL D 1.1684 NO2739.0 04444444 T -0.  
C 4 H 10 B 1 F 3 S 1  
MW 158.00 MI 19.38 MA 0.0863 MD 4.45 EM 9.77 GR 4.35

## MORPHOLINUM TETRAFLUOROBORATE

CA 54, 11037ORGAN, SOLIDICAL D 1.1332 NO2740.0 04444444 T 142.50  
C 4 H 10 B 1 F 4 N 1 O 1  
MW 174.95 MI 21.43 MA 0.0836 MD 3.90 EM 10.17 GR 3.97

## LITHIUM MONOISOBUTYLBOROHYDRIDE

CA 54, 14123ORGAN, UNKNOWCAL D 0.7840 NO2741.0 04444444 T -0.  
C 4 H 10 B 1 Li 1  
MW 79.88 MI 15.22 MA 0.0947 MD 4.22 EM 8.87 GR 5.52

## LITHIUM TRIMETHOXYFORMYLBORATE

CA 53, 49980ORGAN, UNKNOWCAL D 1.1232 NO2742.0 04444444 T -0.  
C 4 H 10 B 1 Li 1 O 3  
MW 155.88 MI 20.17 MA 0.0875 MD 4.34 EM 8.88 GR 3.85

## BUTYLINIMOBORANE

CA 46, 6536ORGAN, LIQUIDEST D 0.8500 NO 693.0 04444444 T -31.40  
C 4 H 10 B 1 N 1  
MW 82.95 MI 15.28 MA 0.0943 MD 6.17 EM 9.87 GR 6.09

## PYRROLIDINOBORANE

PB 1, 18544ORGAN, SOLIDEST D 0.8500 NO 694.0 04444444 T 34.00  
C 4 H 10 B 1 N 1  
MW 82.95 MI 15.28 MA 0.0943 MD 6.17 EM 9.87 GR 6.09

## SODIUM MONOISOBUTYLBOROHYDRIDE

CA 54, 24123ORGAN, SOLIDICAL D 0.8846 NO2744.0 04444444 T -0.  
C 4 H 10 B 1 Na 1  
MW 91.93 MI 15.42 MA 0.0894 MD 5.80 EM 12.69 GR 7.35

## 2-DIMETHYLAMINO-1,3,2-DIOXABOROLANE

CA 53, 20104ORGAN, LIQUIDEST D 0.9000 NO 695.0 04444444 T -0.  
C 4 H 10 B 1 N 1 O 2  
MW 144.95 MI 17.26 MA 0.0814 MD 4.72 EM 9.88 GR 4.66

## 4-METHYL-2-METHYLAMINO-1,3,2-DIOXABOROLANE

CA 53, 20104ORGAN, LIQUIDEST D 0.9000 NO 696.0 04444444 T -0.  
C 4 H 10 B 1 N 1 O 2  
MW 144.95 MI 17.26 MA 0.0814 MD 4.72 EM 9.88 GR 4.66

A 56

## BORON TRICHLORIDE-DIETHYLAMINE

CA 13, 2510ORGAN, UNKNOWCAL D 1.3246 NO2750.0 04444444 T -0.  
C 4 H 11 B 1 CL 3 N 1  
MW 190.93 MI 19.88 MA 0.0833 MD 4.61 EM 993.95 GR 248.97

## BORON TRIFLUORIDE-DIETHYLAMINE

CA 13, 2500ORGAN, SOLIDEST D 1.5000 NO 699.0 04444444 T 160.00  
C 4 H 11 B 1 F 3 N 1  
MW 140.96 MI 20.15 MA 0.1292 MD 7.05 EM 10.83 GR 6.94

## BORON TRIFLUORIDE-ISOBUTYLAMINE

NACN 437210ORGAN, SOLIDEST D 1.5000 NO 701.0 04444444 T -0.  
C 4 H 11 B 1 F 3 N 1  
MW 140.96 MI 20.15 MA 0.1292 MD 7.05 EM 10.83 GR 6.94

## BORON TRIFLUORIDE-BUTYLAMINE

NACN 437210ORGAN, SOLIDEST D 1.5000 NO 702.0 04444444 T -0.  
C 4 H 11 B 1 F 3 N 1  
MW 140.96 MI 20.15 MA 0.1292 MD 7.05 EM 10.83 GR 6.94

## BORON TRIFLUORIDE-TERT-BUTYLAMINE

NACN 437210ORGAN, SOLIDEST D 1.5000 NO 703.0 04444444 T -0.  
C 4 H 11 B 1 F 3 N 1  
MW 140.96 MI 20.15 MA 0.1292 MD 7.05 EM 10.83 GR 6.94

## DIMETHYLETHYLORONIUM FLUOROBORATE

CA 13, 1880ORGAN, SOLIDICAL D 1.1315 NO2751.0 04444444 T 121.00  
C 4 H 11 B 1 F 4 O 1  
MW 161.05 MI 21.36 MA 0.0899 MD 4.63 EM 9.83 GR 4.14

## PENTANYDRO-2-METHYL-1,3,2-DIAZABORINE

CA 49, 12270ORGAN, LIQUIDEST D 0.9400 NO 704.0 04444444 T -0.  
C 4 H 11 B 1 N 2  
MW 97.97 MI 17.35 MA 0.1003 MD 6.36 EM 11.69 GR 6.75

## DIETHYLBORINIC ACID

CA 13, 2270ORGAN, UNKNOWCAL D 0.7921 NO 391.0 04444444 T -0.  
C 4 H 11 B 1 O 1  
MW 85.95 MI 16.20 MA 0.0899 MD 6.11 EM 9.53 GR 5.29

## BORANE-TETRAHYDROFURAN

CA 49, 11480ORGAN, LIQUIDICAL D 0.8254 NO2752.0 04444444 T -34.00  
C 4 H 11 B 1 O 1  
MW 85.95 MI 16.20 MA 0.0937 MD 6.36 EM 9.53 GR 5.51

## N-BUTYLDIHYDROXYBORANE

CA 51, 25360ORGAN, SOLIDICAL D 0.9913 NO 165.0 04104444 T 91.50  
C 4 H 11 B 1 O 2  
MW 101.95 MI 17.19 MA 0.1007 MD 6.44 EM 9.53 GR 5.58

A 57

ETHYLDIETHOXYBORANE  
NACA 353210ORGAN.LIQUIDKNO D 0.8254 NO 166.0 04444444 T -0.  
C 4 H 11 B 1 O 2  
MW 101.95 MI 17.19 MA 0.0838 MD 5.36 EM 9.53 GR 4.65

DIHYDROXYDIETHOXYBORANE  
CA 48. 6950ORGAN. SOLIDEST D 0.9900 NO 705.0 04444444 T 104.00  
C 4 H 11 B 1 O 2  
MW 101.95 MI 17.19 MA 0.1005 MD 6.43 EM 9.53 GR 5.57

SEC-BUTYLDIHYDROXYBORANE  
JACS 79. 5179ORGAN. SOLIDEST D 0.9900 NO 706.0 04444444 T 87.50  
C 4 H 11 B 1 O 2  
MW 101.95 MI 17.19 MA 0.1005 MD 6.43 EM 9.53 GR 5.57

T-BUTYLDIHYDROXYBORANE  
GM 13. 2240ORGAN.LIQUIDEST D 0.9900 NO 707.0 04444444 T 20.00  
C 4 H 11 B 1 O 2  
MW 101.95 MI 17.19 MA 0.1005 MD 6.43 EM 9.53 GR 5.57

DITHOXYBORANE  
CA 47. 9680ORGAN.UNKNOWEST D 0.8500 NO 708.0 04444444 T 20.00  
C 4 H 11 B 1 O 2  
MW 101.95 MI 17.19 MA 0.0863 MD 5.52 EM 9.53 GR 4.79

2-METHYLPROP-2-YL-BORONIC ACID  
CA 54. 11570ORGAN.UNKNOWEST D 0.9900 NO 709.0 04444444 T -0.  
C 4 H 11 B 1 O 2  
MW 101.95 MI 17.19 MA 0.1005 MD 6.43 EM 9.53 GR 5.57

NOXANE-TETRAHYDROTHIOPHENE  
CA 53.21317ORGAN.UNKNOWEST D 0.8500 NO 710.0 04444444 T -0.  
C 4 H 11 B 1 S 1  
MW 102.01 MI 16.51 MA 0.0829 MD 5.52 EM 10.29 GR 5.16

TETRAMETHYLAMMONIUM CHLOROTRIFLUOROBORATE  
CA 54. 11794ORGAN.UNKNOWEST D 1.5000 NO 711.0 04444444 T -0.  
C 4 H 12 B 1 CL 1 F 3 N 1  
MW 127.42 MI 22.35 MA 0.1138 MD 6.11 EM 206.01 GR 104.91

CHLOROBIS(DIMETHYLAMINO)BORANE  
GM 13. 2550ORGAN.LIQUIDCAL D 0.9809 NO 753.0 04444444 T -0.  
C 4 H 12 B 1 CL 1 N 2  
MW 136.83 MI 19.55 MA 0.0859 MD 5.27 EM 206.87 GR 104.92

MUNUCHLOROBORANE-DIETHYL ETHER  
CA 53. 7851ORGAN.LIQUIDEST D 1.0000 NO 712.0 04444444 T -95.00  
C 4 H 12 B 1 CL 1 O 1  
MW 122.42 MI 18.40 MA 0.0905 MD 5.90 EM 704.71 GR 100.72

A 54

TETRAMETHYLAMMONIUM TETRAFLUOROBORATE  
CA 55. 1250ORGAN. SOLIDCAL D 1.1997 NO 762.0 04444444 T 416.50  
C 4 H 12 B 1 F 4 N 1  
MW 160.97 MI 22.44 MA 0.1007 MD 5.39 EM 11.64 GR 5.22

POTASSIUM TETRAMETHOXYBORATE  
CA 55. 1257ORGAN. SOLIDCAL D 1.2633 NO 763.0 04444444 T -0.  
C 4 H 12 B 1 K 1 O 4  
MW 174.00 MI 21.71 MA 0.0949 MD 5.25 EM 12.53 GR 14.22

LITHIUM TETRAMETHYLBORATE  
GM 20. 4890ORGAN. SOLIDCAL D 0.8440 NO 764.0 04444444 T -0.  
C 4 H 12 B 1 LI 1  
MW 77.90 MI 17.22 MA 0.1124 MD 1.83 EM 10.34 GR 6.75

LITHIUM TETRAHYDROBORATE-TETRAHYDROFURAN  
CA 51. 1210ORGAN. SOLIDCAL D 0.9464 NO 765.0 04444444 T -0.  
C 4 H 12 B 1 LI 1 O 1  
MW 93.90 MI 16.21 MA 0.1105 MD 7.28 EM 10.34 GR 6.28

LITHIUM BOROHYDRIDE-PARA DIOXANE  
CA 53. 10880ORGAN. SOLIDCAL D 1.0354 NO 766.0 04444444 T -0.  
C 4 H 12 B 1 LI 1 O 2  
MW 109.90 MI 19.20 MA 0.1090 MD 6.81 EM 10.34 GR 5.87

LITHIUM TETRAMETHOXYBORATE  
CA 55. 1257ORGAN. SOLIDCAL D 1.1826 NO 767.0 04444444 T -0.  
C 4 H 12 B 1 LI 1 O 4  
MW 141.90 MI 21.18 MA 0.1063 MD 6.02 EM 10.35 GR 5.19

DIETHYLAMINOBOBORANE  
CA 44. 5250ORGAN. SOLIDEST D 0.8100 NO 715.0 04004444 T -0.  
C 4 H 12 B 1 N 1  
MW 84.97 MI 17.28 MA 0.0992 MD 6.89 EM 11.34 GR 6.51

DIMETHYLAMINOIMETHYLBORINE  
CA 54. 5437ORGAN.LIQUIDEST D 0.8100 NO 716.0 04444444 T -0.  
C 4 H 12 B 1 N 1  
MW 84.97 MI 17.28 MA 0.0992 MD 6.89 EM 11.34 GR 6.51

DIMETHYLAMINODIMETHYLBORANE  
GM 13. 2400ORGAN. SOLIDEST D 0.8100 NO 717.0 04444444 T -0.  
C 4 H 12 B 1 N 1  
MW 84.97 MI 17.28 MA 0.0992 MD 6.89 EM 11.34 GR 6.51

NOXANE-PYRAZOLINE  
PR 1.185440ORGAN.LIQUIDEST D 0.8100 NO 718.0 04444444 T 20.00  
C 4 H 12 B 1 N 1  
MW 84.97 MI 17.28 MA 0.0992 MD 6.89 EM 11.34 GR 6.51

A 58

DICHLOROMETHYLBORINE-TRIMETHYLAMINE  
CA 54. 2650ORGAN.UNKNOWEST D 1.1500 NO 713.0 04444444 T -0.  
C 4 H 12 B 1 CL 2 N 1  
MW 155.88 MI 19.68 MA 0.0875 MD 5.33 EM 400.23 GR 177.85

DICHLOROMETHOXYBORINE-TRIMETHYLAMINE  
GM 13. 2520ORGAN.UNKNOWCAL D 1.1673 NO 754.0 04444444 T -0.  
C 4 H 12 B 1 CL 2 N 1 O 1  
MW 171.88 MI 20.67 MA 0.0860 MD 4.91 EM 400.23 GR 163.72

DIETHYLAMMONIUM TETRACHLOROBORATE  
CA 53.21624ORGAN. SOLIDCAL D 1.5791 NO 755.0 04444444 T -0.  
C 4 H 12 B 1 CL 4 N 1  
MW 226.80 MI 22.08 MA 0.0926 MD 5.03 EM 789.13 GR 330.94

TETRAMETHYLAMMONIUM TETRACHLOROBORATE  
CA 54. 17794ORGAN. SOLIDCAL D 1.5791 NO 756.0 04444444 T -0.  
C 4 H 12 B 1 CL 4 N 1  
MW 226.80 MI 22.08 MA 0.0926 MD 5.03 EM 789.13 GR 330.94

TEET-BUTYLAMMONIUM TETRACHLOROBORATE  
CA 53.21624ORGAN. SOLIDCAL D 1.5791 NO 757.0 04444444 T 169.50  
C 4 H 12 B 1 CL 4 N 1  
MW 226.80 MI 22.08 MA 0.0926 MD 5.03 EM 789.13 GR 330.94

FLUOROBIS(DIMETHYLAMINO)BORANE  
NACN 2.77340ORGAN.LIQUIDCAL D 0.8781 NO 758.0 04444444 T -54.60  
C 4 H 12 B 1 F 2 N 2  
MW 117.98 MI 19.64 MA 0.0881 MD 5.38 EM 12.49 GR 5.60

DIFLUOROMETHYLBORINE-TRIMETHYLAMINE  
GM 13. 2510ORGAN. SOLIDEST D 1.1500 NO 714.0 04444444 T 35.00  
C 4 H 12 B 1 F 2 N 1  
MW 122.97 MI 19.86 MA 0.1119 MD 6.76 EM 11.49 GR 6.47

HURON TRIFLUORIDE-BIS(DIMETHYLAMINE)SULFOXIDE  
CA 48. 5011ORGAN.UNKNOWCAL D 1.2137 NO 759.0 04444444 T -0.  
C 4 H 12 B 1 F 3 N 2 S 1  
MW 220.032 MI 25.50 MA 0.0847 MD 3.99 EM 13.40 GR 4.45

BORON TRIFLUORIDE-BIS(ETHYL ALCOHOL)  
CA 53.18840ORGAN.UNKNOWCAL D 1.0708 NO 760.0 04444444 T -0.  
C 4 H 12 B 1 F 3 O 2  
MW 159.96 MI 22.06 MA 0.0890 MD 4.84 EM 10.49 GR 4.23

BORON TRIFLUORIDE-P-DIOXANE-2-WATER  
CA 54. 80040ORGAN. SOLIDCAL D 1.1531 NO 761.0 04444444 T 141.50  
C 4 H 12 B 1 F 3 O 4  
MW 191.96 MI 24.04 MA 0.0871 MD 4.35 EM 10.49 GR 3.80

A 50

4-AMINOBUTYLIRUKONIC ACID  
AD261. 2310ORGAN.LIQUIDCAL D 0.9444 NO 453.0 04444444 T -0.  
C 4 H 12 B 1 N 1 O 2  
MW 116.47 MI 19.26 MA 0.0887 MD 5.53 EM 11.34 GR 5.23

DIETHYLAMINOXYDIHYDROXYBORINE  
CA 54. 12580ORGAN.UNKNOWCAL D 0.9554 NO 768.0 04444444 T -0.  
C 4 H 12 B 1 N 1 O 3  
MW 117.97 MI 20.25 MA 0.0876 MD 5.19 EM 11.35 GR 4.91

BORANE-CYANOTRIMETHYLSILANE  
CA 54. 30310ORGAN.UNKNOWCAL D 0.9267 NO 769.0 04444444 T -0.  
C 4 H 12 B 1 N 1 SI 1  
MW 113.06 MI 18.54 MA 0.0915 MD 5.92 EM 12.12 GR 5.79

SODIUM BUTYLTRIMETHOXYBORATE  
CA 51. 18820ORGAN. SOLIDCAL D 1.1734 NO 770.0 04444444 T -0.  
C 4 H 12 B 1 NA 1 O 3  
MW 141.95 MI 20.39 MA 0.1033 MD 6.08 EM 14.16 GR 7.17

SODIUM TETRAMETHOXYBORATE  
CA 55. 1257ORGAN. SOLIDCAL D 1.2548 NO 771.0 04444444 T -0.  
C 4 H 12 B 1 NA 1 O 4  
MW 157.95 MI 21.38 MA 0.1023 MD 5.74 EM 14.16 GR 6.78

DIMETHYLSILANEDIOL KURATE POLYMER  
CA 49. 122890ORGAN.POLYMERCAL D 1.5580 NO 4128.0 04444444 T -0.  
C 4 H 12 B 1 O 2 SI 2  
MW 159.14 MI 20.71 MA 0.1221 MD 7.08 EM 11.83 GR 6.97

DIETHYLBORINOPHOSPHINE  
AD252. 0940ORGAN.UNKNOWCAL D 0.9098 NO 4262.0 04444444 T -0.  
C 4 H 12 B 1 P 1  
MW 101.93 MI 17.54 MA 0.0939 MD 6.42 EM 12.09 GR 6.47

DIETHYLPHOSPHINOBOBORINE  
AD142. 0280ORGAN.LIQUIDCAL D 0.9057 NO 4187.0 04444444 T -6.50  
C 4 H 12 B 1 P 1  
MW 101.93 MI 17.54 MA 0.0947 MD 6.48 EM 12.08 GR 6.52

METHYL ISOPROPYLPYRROPHOSPHINOBOBORINE  
AD151. 1820ORGAN.LIQUIDCAL D 0.9058 NO 4188.0 04444444 T -0.  
C 4 H 12 B 1 P 1  
MW 101.93 MI 17.54 MA 0.0939 MD 6.42 EM 12.09 GR 6.47

DIMETHYLPHOSPHINODIMETHYLBORINE  
AD142. 0280ORGAN. SOLIDCAL D 0.9058 NO 4189.0 04444444 T 333.50  
C 4 H 12 B 1 P 1  
MW 101.93 MI 17.54 MA 0.0939 MD 6.42 EM 12.09 GR 6.47

A 61

TETRAMETHYLDIBORANE  
CA 54.1290ORGAN.LIQUIDICAL D 0.7689 NO2773.0 04444444 T -0.  
C 4 H 12 B 2  
MW 81.78 MI 17.16 MA 0.0973 MD 6.80 EM 11.65 GR 6.60

CALCIUM BIS(DIMETHYLBORATE)  
AD137.01ORGAN.UNKNOWCAL D 1.1948 NO4189.0 04444444 T -0.  
C 4 H 12 B 2CA 1  
MW 121.86 MI 18.76 MA 0.1108 MD 7.09 EM 15.64 GR 9.24

CALCIUM TETRAMETHOXYBOROHYDRIDE  
N 413440ORGAN.UNKNOWCAL D 1.4332 NO4284.0 04444444 T -0.  
C 4 H 12 B 2CA 1 O 4  
MW 185.86 MI 22.72 MA 0.1055 MD 5.97 EM 15.65 GR 7.27

DICHLORO(DIMETHYLAMINO)BORANE DIMER  
CA 46.8431ORGAN. SOLIDICAL D 1.4185 NO2774.0 04444444 T 142.50  
C 4 H 12 B 2CL 4 N 2  
MW 291.02 MI 24.12 MA 0.0619 MD 4.07 EM 791.60 GR 268.80

DIBORON TETRACHLORIDE-2-DIMETHYL ETHER  
CA 44.8270ORGAN. SOLIDICAL D 1.4782 NO2775.0 04444444 T -0.  
C 4 H 12 B 2CL 4 O 2  
MW 295.604 MI 23.95 MA 0.0835 MD 4.18 EM 789.44 GR 274.96

DIBORON TETRACHLORIDE-2-DIMETHYL SULFIDE  
CA 53.19660ORGAN. SOLIDICAL D 1.6219 NO2776.0 04114444 T -0.  
C 4 H 12 B 2CL 4 S 2  
MW 287.73 MI 24.58 MA 0.0835 MD 4.07 EM 790.95 GR 268.96

BORON TRIFLUORIDE-DIMETHYLAMINO DIMETHYLBORANE  
NACF 2.2850ORGAN.UNKNOWCAL D 1.0448 NO2777.0 04114444 T -0.  
C 4 H 12 B 2F 3 N 1  
MW 152.79 MI 22.12 MA 0.0911 MD 4.94 EM 12.95 GR 5.34

DIFLUORO(DIMETHYLAMINO)BORANE DIMER  
CA 46.10100ORGAN. SOLIDICAL D 1.1191 NO2778.0 04114444 T 168.00  
C 4 H 12 B 2F 4 N 2  
MW 185.80 MI 24.48 MA 0.0885 MD 4.34 EM 14.11 GR 5.10

RISIBORON TRIFLUORIDE-BIS(DIMETHYLAMINO)SULFIDE  
CA 48.30110ORGAN.UNKNOWCAL D 1.3004 NO2779.0 04444444 T -0.  
C 4 H 12 B 2F 4 N 2 S 1  
MW 253.08 MI 28.36 MA 0.0988 MD 3.67 EM 15.01 GR 4.60

ORXBIS(DIMETHYLBORANE)  
NACN 22550ORGAN.LIQUIDEST U 0.8000 NO 719.0 04444444 T -37.30  
C 4 H 12 B 2 O 1  
MW 97.72 MI 18.17 MA 0.0895 MD 5.91 EM 11.66 GR 5.74

A 63

HYDROXBIS(DIMETHYLAMINO)BORANE  
CA 46.3380ORGAN.UNKNOWEST D 0.9000 NO 724.0 04444444 T -0.  
C 4 H 13 B 1 N 2 O 1  
MW 119.98 MI 20.34 MA 0.0991 MD 6.08 EM 13.16 GR 6.15

BORANE-DIETHYL ETHER  
CA 48.12672ORGAN. SOLIDEST D 0.9000 NO 725.0 04444444 T -0.  
C 4 H 13 B 1 O 1  
MW 87.07 MI 18.20 MA 0.1122 MD 8.01 EM 11.00 GR 6.78

BORANE-ETHYL ETHER  
CA 52.19370ORGAN.UNKNOWCAL D 0.8403 NO2783.0 04444444 T -0.  
C 4 H 13 B 1 O 1  
MW 87.07 MI 18.20 MA 0.1047 MD 7.48 EM 11.00 GR 6.33

DIPHOSPHINEBUTYLBORINE  
AD102.9840ORGAN.LIQUIDICAL D 1.1804 NO4455.0 04444411 T -0.  
C 6 H 13 B 1 P 2  
MW 133.92 MI 19.87 MA 0.1095 MD 6.90 EM 14.64 GR 7.77

BUTYLDIPHOSPHINOBORANE POLYMER  
CA 49.10972ORGAN.LIQUIDICAL D 1.3255 NO4129.0 04444411 T -0.  
C 6 H 13 B 1 P 2  
MW 133.92 MI 19.87 MA 0.1303 MD 8.92 EM 14.64 GR 10.05

BORANE-DIETHYL SULFIDE  
CA 53.13170ORGAN.UNKNOWEST D 0.8200 NO 726.0 04444444 T -0.  
C 4 H 13 B 1 S 1  
MW 104.03 MI 18.91 MA 0.0879 MD 6.17 EM 11.75 GR 5.98

BORON TRIFLUORIDE-METHYL BORATE-METHANOL  
CA 54.4990ORGAN.UNKNOWEST D 0.9500 NO 727.0 04444444 T -0.  
C 4 H 13 B 2 F 3 O 4  
MW 203.79 MI 26.01 MA 0.0730 MD 3.65 EM 12.62 GR 3.54

PYRROLIDINODIBORANE  
PB 1.18940ORGAN.LIQUIDEST D 0.7000 NO 728.0 04444444 T -63.50  
C 4 H 13 B 2 N 1  
MW 96.80 MI 19.25 MA 0.0839 MD 5.66 EM 13.47 GR 5.87

LITHIUM BOROHYDRIDE-ETHYL ETHER  
CA 47.3270ORGAN.UNKNOWCAL D 0.8085 NO2786.0 04444444 T -0.  
C 4 H 14 B 1 Li 1 O 1  
MW 95.92 MI 20.21 MA 0.1024 MD 7.09 EM 11.81 GR 5.98

BORANE-N,N-DIMETHYLETHYLAMINE  
CA 53.90610ORGAN.LIQUIDEST D 0.8500 NO 729.0 04444414 T 17.70  
C 4 H 14 B 1 N 1  
MW 86.98 MI 19.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

A 62

BIS(ETHYLHYDROXYBORONI)OXIDE  
CA 53.110010ORGAN.UNKNOWCAL D 0.9865 NO2780.0 04444444 T -0.  
C 4 H 12 B 2 O 3  
MW 129.78 MI 20.13 MA 0.0923 MD 5.49 EM 11.66 GR 5.34

TETRAMETHOXYDIBORANE  
GM 134.2280ORGAN.LIQUIDICAL D 1.0410 NO2781.0 04444444 T -24.00  
C 4 H 12 B 2 O 4  
MW 149.98 MI 21.14 MA 0.0910 MD 5.16 EM 11.66 GR 5.02

CHLORODIMETHYLBORINE-TRIMETHYLAMINE  
GM 134.2510ORGAN.UNKNOWEST D 0.9500 NO 720.0 04444444 T -0.  
C 4 H 13 B 1 Cl 1 N 1  
MW 121.43 MI 19.48 MA 0.0918 MD 6.13 EM 206.52 GR 97.32

N-TERTBUTYL-8-MONOCHELOROBORAZANE  
CA 55.43430ORGAN. SOLIDICAL D 1.0329 NO2782.0 04444444 T 102.00  
C 4 H 13 B 1 Cl 3 N 1  
MW 121.429 MI 19.48 MA 0.0998 MD 6.66 EM 206.52 GR 105.82

FLUORODIMETHYLBORINE-DIMETHYLAMINE  
CA 48.13440ORGAN. SOLIDICAL U 0.9113 NO2783.0 04444444 T 21.00  
C 4 H 13 B 1 F 1 N 1  
MW 104.98 MI 19.57 MA 0.1023 MD 6.80 EM 12.15 GR 6.35

TETRAMETHYLAHONIUM HYDROXYTRIFLUOROBORATE  
CA 49.52670ORGAN. SOLIDICAL U 0.9113 NO2784.0 04444444 T 414.00  
C 4 H 13 B 1 P 3 N 1 O 1  
MW 158.08 MI 23.14 MA 0.0998 MD 5.61 EM 12.30 GR 5.30

BORANE-DIETHYLAMINE  
CA 54.15220ORGAN.LIQUIDEST U 0.8100 NO1799.0 04444444 T -18.00  
C 4 H 13 B 1 N 1  
MW 86.98 MI 18.28 MA 0.1083 MD 7.58 EM 12.07 GR 7.02

N-(DIMETHYLBORNYL)ETHYLENEDIAMINE  
CA 49.12270ORGAN. SOLIDEST D 0.9500 NO 721.0 04444444 T 39.00  
C 4 H 13 B 1 N 2  
MW 99.98 MI 19.35 MA 0.1107 MD 7.44 EM 13.15 GR 7.53

BIS(DIMETHYLAMINO)BORINE  
GM 134.2510ORGAN.LIQUIDEST D 0.9500 NO 722.0 04114444 T -0.  
C 4 H 13 B 1 N 2  
MW 99.98 MI 19.35 MA 0.1107 MD 7.44 EM 13.15 GR 7.53

BIS(ETHYLAMINO)BORANE  
PR 1.22930ORGAN.UNKNOWEST D 0.9500 NO 723.0 04444444 T -0.  
C 4 H 13 B 1 N 2  
MW 99.98 MI 19.35 MA 0.1107 MD 7.44 EM 13.15 GR 7.53

A 64

METHYLBORINE-TRIMETHYLAMINE  
GM 134.2510ORGAN.LIQUIDEST D 0.8500 NO 730.0 04444410 T 1.00  
C 4 H 14 B 1 N 3  
MW 86.98 MI 19.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

DIMETHYLBORINE-DIMETHYLAMINE  
GM 134.2510ORGAN.UNKNOWEST D 0.8500 NO 731.0 04444411 T -0.  
C 4 H 14 B 1 N 2  
MW 86.98 MI 19.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

BORANE-DIETHYLAMINE  
GM 134.2510ORGAN. SOLIDEST D 0.8500 NO 732.0 04444411 T -0.  
C 4 H 14 B 1 N 2  
MW 86.98 MI 19.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

TRIMETHYLBORINE-METHYLAMINE  
GM 134.2510ORGAN. SOLIDEST D 0.8500 NO 733.0 04444411 T 27.00  
C 4 H 14 B 1 N 3  
MW 86.98 MI 19.28 MA 0.1135 MD 8.24 EM 12.81 GR 7.54

BORANE-TERTBUTYLAMINE  
CA 55.43430ORGAN.UNKNOWCAL D 0.7677 NO2787.0 04444444 T -0.  
C 4 H 14 B 1 N 3  
MW 86.98 MI 19.28 MA 0.1025 MD 7.44 EM 12.81 GR 6.81

BORANE-BUTYLAMINE  
CA 54.15220ORGAN.LIQUIDEST D 0.8300 NO1800.0 04444444 T -48.00  
C 4 H 14 B 1 N 1  
MW 86.98 MI 19.28 MA 0.1108 MD 8.05 EM 12.81 GR 7.56

BORANE-TERTBUTYLAMINE  
CA 54.15220ORGAN.UNKNOWEST D 0.8300 NO1801.0 04444444 T -0.  
C 4 H 14 B 1 N 3  
MW 86.98 MI 19.28 MA 0.1109 MD 8.05 EM 12.81 GR 7.56

TRIMETHOXYBORANE-METHYLAMINE  
CA 47.73570ORGAN. SOLIDICAL D 0.9988 NO2788.0 04444444 T 67.00  
C 4 H 14 B 1 N 3 O 3  
MW 134.98 MI 22.25 MA 0.0990 MD 6.23 EM 12.81 GR 5.70

METHANETRIODIBORANE  
AD 58.3840ORGAN.UNKNOWCAL D 0.9707 NO4190.0 14444441 T -0.  
C 4 H 14 B 1 N 3 I 1  
MW 119.04 MI 20.58 MA 0.1011 MD 6.88 EM 13.57 GR 6.66

BORANE-DIETHYLPHOSPHINE  
CA 54.54650ORGAN.UNKNOWCAL D 0.9277 NO2789.0 04444444 T -0.  
C 4 H 14 B 1 P 1  
MW 103.95 MI 19.54 MA 0.1050 MD 7.53 EM 13.55 GR 7.29

A 65

BORANE-ISOPROPYLMETHYLPHOSPHINE  
CA 54. 5469ORGAN.UNKNOWCAL D 0.9277 NO2790.0 04444444 T -0.  
C 4 H 14 B 1 P 1  
Mw 103.93 MI 19.34 MA 0.1050 HU 7.53 EM 13.55 GR 7.29

DIMETHYLBORINE-DIMETHYLPHOSPHINE  
CA 47.11062ORGAN.UNKNOWCAL D 0.9277 NO2791.0 04444444 T -0.  
C 4 H 14 B 1 P 1  
Mw 103.93 MI 19.34 MA 0.1050 HU 7.53 EM 13.55 GR 7.29

POLY-BIS(DIMETHYLSILYL)PHOSPHINE-BORANE ADDUCT  
AD277. 693ORGAN.POLMERCAL D 1.4848 NO4677.0 04444444 T -0.  
C 4 H 14 B 1 P 1  
Mw 160.13 MI 22.06 MA 0.1232 HD 7.82 EM 15.12 GR 8.44

1,1,2,2-TETRAMETHYLDIBORANE  
GM 13. 221ORGAN.LIQUIDCAL D 0.7858 NO2792.0 04444444 T -72.50  
C 4 H 14 B 2  
Mw 83.80 MI 19.18 MA 0.1083 HD 7.91 EM 13.12 GR 7.41

1,2-DIETHYLDIBORANE  
CAP 16. 550ORGAN.UNKNOWCAL D 0.7858 NO2793.0 04444444 T -0.  
C 4 H 14 B 2  
Mw 83.80 MI 19.18 MA 0.1083 HU 7.91 EM 13.12 GR 7.41

DISODIUM TERAMETHYLDIBORATE  
AD 17. 550ORGAN.UNKNOWCAL D 1.1300 NO4191.0 04444444 T -0.  
C 4 H 14 B 2 NA 2  
Mw 129.78 MI 21.60 MA 0.1133 HD 7.34 EM 20.91 GR 10.97

N,N PRIME BIS(DIMETHYLBORYL)METHANAMINE  
NACH .49416ORGAN.LIQUIDEST D 0.8700 NO 734.0 04444444 T -0.  
C 4 H 14 B 2 N 2  
Mw 111.81 MI 21.32 MA 0.0999 HD 6.56 EM 13.28 GR 7.16

DIBORANE-DIOXANE  
CA 55. 3041ORGAN.UNKNOWCAL D 0.9541 NO2794.0 04444444 T -0.  
C 4 H 14 B 2 O 2  
Mw 119.80 MI 21.10 MA 0.1050 HU 6.94 EM 13.12 GR 6.51

1,2,3,5-TETRAMETHYLBORAZINE  
CA 53.10112ORGAN.UNKNOWCAL D 0.8300 NO 735.0 04444444 T -0.  
C 4 H 14 B 3 N 3  
Mw 136.64 MI 23.16 MA 0.0855 HU 3.12 EM 17.73 GR 6.49

TRIS(METHYLTHIO)AMMONIUM-METHYLAMINE  
GM 13. 223ORGAN. SOLIDCAL D 1.1131 NO2795.0 04444444 T 182.00  
C 4 H 14 S 3 N 1 O 3  
Mw 166.62 MI 24.19 MA 0.1035 HU 5.99 EM 15.80 GR 6.68

A 67

AMMONIUM TETRAMETHYLBORATE  
CA 53.10661ORGAN. SOLIDCAL D 1.1462 NO2807.0 04444444 T -0.  
C 4 H 14 B 3 N 1 O 4  
Mw 153.00 MI 25.24 MA 0.1139 HD 7.22 EM 14.78 GR 6.45

BIS(DIMETHYLAMINO)DIBORANE  
CA 52.10869ORGAN.LIQUIDEST D 0.8500 NO 736.0 04444444 T -54.00  
C 4 H 14 B 2 N 2  
Mw 113.83 MI 23.32 MA 0.1049 HD 7.20 EM 16.75 GR 7.53

BIS(DIMETHYLAMINO)BORINE  
CA 52.10869ORGAN. SOLIDEST D 0.8500 NO 737.0 04444444 T 74.00  
C 4 H 14 B 2 N 2  
Mw 113.83 MI 23.32 MA 0.1049 HU 7.20 EM 16.75 GR 7.53

TETRAMETHYLAMMONIUM PENTABORATE  
CA 54. 2069ORGAN. SOLIDCAL D 1.0207 NO2803.0 04444444 T -0.  
C 4 H 14 B 5 N 1 O 10  
Mw 292.26 MI 35.06 MA 0.1171 HD 5.34 EM 19.86 GR 6.63

LITHIUMALUMINUM TETRAHYDROGEN TETRAHYDROBORATE-ETHYL ETHER  
PHOD .1955ORGAN.UNKNOWCAL D 1.1241 NO2804.0 04114111 T -0.  
C 4 H 17 AL 1 B 1 Li 1 O 1  
Mw 125.92 MI 24.52 MA 0.1318 HU 9.14 EM 18.01 GR 8.61

DIETHYL ETHER-TRIBORANE  
CA 54. 9583ORGAN.UNKNOWCAL D 0.8316 NO2805.0 04444444 T -0.  
C 4 H 17 B 3 O 1  
Mw 113.64 MI 24.14 MA 0.1064 HU 7.49 EM 16.72 GR 7.37

DIETHYLPENTABORANE  
CA 54.12979ORGAN.UNKNOWCAL D 0.8863 NO2806.0 04444444 T -0.  
C 4 H 17 B 5  
Mw 119.28 MI 25.09 MA 0.1173 HD 7.61 EM 19.30 GR 8.73

LITHIUM TETRAHYDROBORATE-1-DIETHYL ETHER  
CA 52.13510ORGAN.UNKNOWCAL D 0.8834 NO2807.0 04114111 T -0.  
C 4 H 18 B 2 Li 2 O 1  
Mw 117.71 MI 26.19 MA 0.1184 HU 8.14 EM 16.21 GR 7.33

MAGNESIUM TETRAHYDROBORATE-1-DIETHYL ETHER  
CA 53. 2554ORGAN.UNKNOWCAL D 1.0069 NO2808.0 04444444 T -0.  
C 4 H 18 B 2 MG 1 O 1  
Mw 126.15 MI 25.39 MA 0.1202 HU 8.52 EM 16.59 GR 7.89

DIMETHYLAMINOIMETHYLPHOSPHINE DIBORANE  
AD228. 250ORGAN. SOLIDCAL D 0.8813 NO4194.0 04444444 T -0.  
C 4 H 18 B 2 N 1 P 1  
Mw 137.81 MI 25.58 MA 0.1022 HU 7.19 EM 18.96 GR 7.58

A 66

6-TRIMETHYL-N-NONAMETHYLBORAZOLE  
GM 13. 244ORGAN.LIQUIDCAL D 1.1849 NO2796.0 04444444 T -0.  
C 4 H 14 B 6 N 4  
Mw 183.11 MI 27.34 MA 0.1066 HD 5.46 EM 23.00 GR 8.97

BORANE-DIMETHYLAMINOIMETHYL PHOSPHINE  
AD228. 250ORGAN.LIQUIDCAL D 0.9291 NO4192.0 04444444 T 12.00  
C 4 H 15 B 1 N 1 P 1  
Mw 110.97 MI 21.61 MA 0.1017 HD 7.06 EM 15.37 GR 7.23

BORANE-DIMETHYLAMINOIMETHYLPHOSPHINE  
PB 1.31180ORGAN.LIQUIDCAL D 0.9291 NO2797.0 04444444 T 10.50  
C 4 H 15 B 1 N 1 P 1  
Mw 118.97 MI 21.61 MA 0.1017 HD 7.06 EM 15.37 GR 7.23

BORANE-TETRAMETHYLDIPHOSPHINE  
CA 54. 5434ORGAN.UNKNOWCAL D 1.0721 NO2798.0 04444444 T -0.  
C 4 H 15 B 1 P 2  
Mw 139.93 MI 21.87 MA 0.1039 HD 7.13 EM 16.11 GR 7.65

DIETHYLAMINODIBORANE  
CA 52.10869ORGAN. SOLIDKND D 0.7030 NO 413.0 04444444 T 64.00  
C 4 H 15 B 2 N 1  
Mw 98.81 MI 21.25 MA 0.0911 HD 6.43 EM 14.93 GR 6.40

TRIBORANE-TETRAHYDROFURAN  
AD138. 529ORGAN.UNKNOWCAL D 0.9052 NO4193.0 04444444 T -0.  
C 4 H 15 B 3 O 1  
Mw 111.62 MI 22.14 MA 0.1081 HD 7.33 EM 15.25 GR 7.45

TRIBORANE-FURAN  
AC5132. ORGAN. SOLIDCAL D 0.9052 NO2799.0 04444444 T 39.00  
C 4 H 15 B 3 O 1  
Mw 111.62 MI 22.14 MA 0.1081 HD 7.33 EM 15.25 GR 7.45

NORON TRIFLUORIDE-UREA  
CA 52.17118ORGAN.UNKNOWCAL D 1.2469 NO2800.0 04444444 T -0.  
C 4 H 16 B 1 F 3 N 8 O 4  
Mw 308.06 MI 36.60 MA 0.0892 HD 3.90 EM 22.06 GR 5.38

LITHIUM BUDIMYDRIDE-METHYL ETHER  
CA 52. 6909ORGAN.UNKNOWCAL D 0.9543 NO2801.0 04444444 T -0.  
C 4 H 16 H 1 Li 1 O 2  
Mw 113.93 MI 23.20 MA 0.1170 HU 8.07 EM 13.28 GR 6.70

TETRAMETHYLAMMONIUM TETRAHYDROBORATE  
CA 46. 8559ORGAN. SOLIDKND D 0.8130 NO 91.0 04114111 T -0.  
C 4 H 16 B 4 N 1  
Mw 84.00 MI 21.28 MA 0.1171 HU 8.80 EM 14.28 GR 7.86

A 68

DIBORANE-DIMETHYLAMINOIMETHYL PHOSPHINE  
CA 54.20646ORGAN. SOLIDCAL D 0.8913 NO2809.0 04444444 T -0.  
C 4 H 18 B 2 N 1 P 1  
Mw 137.81 MI 25.58 MA 0.1022 HU 7.19 EM 18.96 GR 7.58

HEXAMETHYLAMINODIBORANE-TRIMETHYLAMINE  
NACH .69404ORGAN. SOLIDEST D 0.8500 NO2810.0 04444444 T -0.  
C 4 H 18 B 2 N 3  
Mw 119.84 MI 23.32 MA 0.1119 HU 7.96 EM 18.21 GR 8.05

HIS(B-B-PRIME-DIMETHYLDIBORANE-MYOKAZINE  
NACH .49416ORGAN.LIQUIDEST D 0.8500 NO2811.0 04444444 T 11.00  
C 4 H 18 B 2 N 2  
Mw 119.84 MI 23.32 MA 0.1119 HU 7.96 EM 18.21 GR 8.05

DIBORANE-TETRAMETHYLDIPHOSPHINE  
CA 54. 5434ORGAN.UNKNOWCAL D 1.0023 NO2812.0 04444444 T -0.  
C 4 H 18 B 2 P 2  
Mw 149.78 MI 25.84 MA 0.1042 HD 7.26 EM 19.70 GR 7.94

BIS(DIMETHYLAMINO)TRIMORANE  
CA 51.11153ORGAN. SOLIDCAL D 0.8143 NO2813.0 04444444 T -0.  
C 4 H 18 B 3 N 2  
Mw 126.66 MI 26.29 MA 0.1024 HD 7.01 EM 19.61 GR 7.64

SODIUM OCTAHYDROTRIBORATE-1-DIETHYL ETHER  
CA 52.10787ORGAN. SOLIDCAL D 1.0243 NO2814.0 04114111 T -0.  
C 4 H 18 B 3 NA 1 O 1  
Mw 137.64 MI 26.35 MA 0.1181 HD 8.07 EM 21.34 GR 9.57

BIS(DIMETHYLAMINO)TETRABORANE  
RUKG 6. 238ORGAN.LIQUIDCAL D 0.8743 NO2815.0 04444444 T 11.00  
C 4 H 18 B 4 N 2  
Mw 137.48 MI 27.26 MA 0.1044 HD 6.89 EM 21.00 GR 8.04

DECABORANE-DIACETONITRILE  
CA 51. 8569ORGAN. SOLIDCAL D 1.1690 NO2816.0 04444444 T 201.00  
C 4 H 18 B 10 N 2  
Mw 202.40 MI 33.08 MA 0.1151 HD 6.76 EM 29.35 GR 10.21

CALCIUM DIMETHYLDIMYDROBORATE-1-AMMONIA  
AD123. 230ORGAN. SOLIDCAL D 1.0149 NO4456.0 04444444 T -0.  
C 4 H 19 B 2 CA 1 N 1  
Mw 142.92 MI 26.81 MA 0.1147 HD 8.13 EM 21.86 GR 9.36

URANE-ETHYL ETHER  
CA 52.19379ORGAN.UNKNOWCAL D 0.7711 NO2817.0 04444444 T -0.  
C 4 H 19 B 3 O 1  
Mw 115.66 MI 26.14 MA 0.1050 HU 7.63 EM 18.18 GR 7.10

A 69

DIAMMONDIUM METHYLBORON-DIETHYLBOROHYDRIDE  
AD2404 9120ORGAN,UNKNOWNCAL D 0.7131 NO4458.0 0444444 T -0.  
C 4 M 20 B 2 N 2  
MW 117.86 MI 27.32 MA 0.0986 MD 7.29 EM 19.68 GR 7.17

(METHYLSILICYLAMINO)DIISOBORANE-TRIMETHYLAMINE  
NACP 2. 2860ORGAN,UNKNOWNCAL D 0.8469 NO2816.0 0444444 T -0.  
C 4 M 20 B 2 N 25J 1  
MW 145.95 MI 28.58 MA 0.0999 MD 6.99 EM 20.46 GR 7.15

PENTABORANE-DIETHYLAMINE  
CPAC 16. 10860ORGAN,UNKNOWNCAL D 0.8316 NO4094.0 0444444 T -0.  
C 4 M 20 B 5 N 1  
MW 136.31 MI 29.16 MA 0.1072 MD 7.35 EM 22.78 GR 8.37

PENTABORANE-DIETHYLAMINE  
CA 52.10860ORGAN,UNKNOWNCAL D 0.8316 NO2819.0 0444444 T -0.  
C 4 M 20 B 5 N 1  
MW 136.31 MI 29.16 MA 0.1072 MD 7.35 EM 22.78 GR 8.37

CALCIUM TETRAMETHORYBOROHYDRIDE  
N 41340ORGAN,UNKNOWNCAL D 1.2119 NO4285.0 0444444 T -0.  
C 4 M 22 B 4CA 1 O 4  
MW 217.58 MI 34.06 MA 0.1163 MD 7.38 EM 25.77 GR 8.65

BUTYLDECABORANE  
CA 53.13049ORGAN,LIQUIDCAL D 0.9849 NO2820.0 0444444 T -0.  
C 4 M 22 B 10  
MW 178.42 MI 34.94 MA 0.1162 MD 7.31 EM 30.12 GR 10.02

DIETHYLDECABORANE  
CA 54.12970ORGAN,UNKNOWNCAL D 0.9849 NO2821.0 0444444 T -0.  
C 4 M 22 B 10  
MW 178.42 MI 34.94 MA 0.1162 MD 7.31 EM 30.12 GR 10.02

ISOMER OF DIETHYLDECABORANE  
CA 54.12970ORGAN,UNKNOWNCAL D 0.9849 NO2822.0 0444444 T -0.  
C 4 M 22 B 10  
MW 178.42 MI 34.94 MA 0.1162 MD 7.31 EM 30.12 GR 10.02

PENTA BORANE-BIS(DIETHYLAMINE)  
CA 52.10860ORGAN,LIQUIDKNO D 0.7770 NO 412.0 0414444 T -58.00  
C 4 M 23 B 5 N 2  
MW 153.34 MI 33.23 MA 0.1014 MD 7.02 EM 26.06 GR 7.95

DECABORANE-DIETHYLAMINE  
AD281. 4230ORGAN,UNKNOWNCAL D 0.9883 NO4196.0 0444444 T -0.  
C 4 M 25 B 10 N 1  
MW 195.43 MI 39.01 MA 0.1188 MD 7.61 EM 33.40 GR 10.17

A 71

PYRIDINIUM HYDROXYTRIFLUOROBORATE  
CA 52.15210ORGAN,UNKNOWNCAL D 1.1670 NO2827.0 0444444 T -0.  
C 5 M 7 B 1 O 1  
MW 164.94 MI 17.95 MA 0.0765 MD 2.98 EM 7.91 GR 3.37

LITHIUM TRIHYDROXY(2-PYRIDINIUM)BORATE  
CA 53.16120ORGAN,UNKNOWNCAL D 1.2404 NO2828.0 0444444 T -0.  
C 5 M 7 B 1 L 1 N 1 O 3  
MW 146.88 MI 17.07 MA 0.0888 MD 3.56 EM 7.77 GR 3.95

BORON TRIFLUORIDE-(6-METHYL-1,2-PYRIDINE)  
CA 50.16783ORGAN,LIQUIDCAL D 1.2372 NO2829.0 0444444 T -0.  
C 5 M 8 B 1 P 3 O 2  
MW 167.94 MI 18.07 MA 0.0887 MD 3.55 EM 7.57 GR 3.56

BORANE-PYRIDINE  
CA 53.1020ORGAN,LIQUIDEST D 0.9300 NO 741.0 0144444 T 10.50  
C 5 M 8 B 1 N 1  
MW 92.95 MI 14.09 MA 0.0849 MD 4.82 EM 8.42 GR 5.08

METHYLDIVINYLBORINE  
CA 54. 44740ORGAN,UNKNOWNEST D 0.7500 NO 742.0 0444444 T -0.  
C 5 M 8 B 1  
MW 79.95 MI 14.02 MA 0.0792 MD 5.09 EM 8.08 GR 4.56

CYCLOC BORATE OF 2-(HYDROXYMETHYL)-2-METHYL-1,3-PROPANEDIOL  
CA 54. 23710ORGAN, SOLIDEST D 1.0000 NO 743.0 0444444 T 216.00  
C 5 M 9 B 1 O 3  
MW 127.95 MI 16.99 MA 0.0800 MD 4.24 EM 8.08 GR 3.80

BORON TRICHLORIDE-BUTYLWITIDE  
CA 54.28970ORGAN, SOLIDCAL D 1.3685 NO2830.0 0444444 T 36.00  
C 5 M 9 B 1 CL 3 N 1  
MW 200.33 MI 18.69 MA 0.0789 MD 3.70 EM 592.49 GR 243.79

ORTHOMETHYLBUTYROLACTONIUM TETRAFLUOROBORATE  
CA 51.10472ORGAN, SOLIDCAL D 1.2113 NO2831.0 0444444 T 61.00  
C 5 M 9 B 1 P 4 O 2  
MW 187.95 MI 21.16 MA 0.0821 MD 3.49 EM 8.38 GR 3.25

DICHLORIDE-CHLOROPENTOKYBORANE  
CA 51. 4470ORGAN,UNKNOWNKNO D 1.2280 NO 167.0 0444444 T -0.  
C 5 M 10 B 1 CL 3 O 1  
MW 203.33 MI 19.61 MA 0.0713 MD 3.64 EM 592.15 GR 215.42

BORON TRICHLORIDE-AMYLENE OXIDE  
CA 51. 9609ORGAN,LIQUIDEST D 1.2500 NO 744.0 0444444 T -0.  
C 5 M 10 B 1 CL 3 O 1  
MW 203.33 MI 19.61 MA 0.0726 MD 3.70 EM 592.15 GR 219.28

A 70

MONO-ETHYLETHRATE SODIUM TRIDECANYLDECABORATE(1-1)  
AD2284 4880ORGAN,UNKNOWNCAL D 1.2281 NO4198.0 0444444 T -0.  
C 4 M 23 B 10NA 1 O 1  
MW 218.42 MI 38.14 MA 0.1285 MD 7.75 EM 34.75 GR 11.71

6,15-METHYLETHRATE OF SODIUM TRIDECANYLDECABORATE(1-1)  
AD2704 6820ORGAN,UNKNOWNCAL D 0.8900 NO4197.0 0444444 T -0.  
C 4 M 25 B 10NA 1 O 2  
MW 236.43 MI 41.13 MA 0.0881 MD 4.14 EM 36.22 GR 6.00

BIS(SODIUM OCTANYLDOTRIBORATE(1-1)-DIETHYL ETHER  
CA 52.10782ORGAN, SOLIDCAL D 1.1192 NO2823.0 0411411 T -0.  
C 4 M 26 B 4NA 2 O 1  
MW 201.15 MI 38.47 MA 0.1289 MD 8.71 EM 35.28 GR 11.82

DECABORANE-2-DIMETHYLAMINE  
CA 53. 49980ORGAN, SOLIDCAL D 0.9430 NO4095.0 0444444 T -0.  
C 4 M 28 B 10 N 2  
MW 212.48 MI 43.08 MA 0.1152 MD 7.49 EM 36.68 GR 9.81

BORON TRICHLORIDE-(4-CHLOROPYRIDINE)  
CA 53.18697ORGAN,UNKNOWNCAL D 1.3790 NO4517.0 0444444 T -0.  
C 5 M 4 B 1 CL 4 N 1  
MW 230.74 MI 14.89 MA 0.0614 MD 1.65 EM 783.27 GR 322.86

BORON OXYCHLORIDE-PYRIDINE  
CA 51. 25370ORGAN,UNKNOWNCAL D 1.2134 NO4518.0 0444444 T -0.  
C 5 M 5 B 1 CL 1 N 1 O 1  
MW 141.98 MI 13.28 MA 0.0887 MD 2.58 EM 200.67 GR 103.73

BORON TRICHLORIDE-PYRIDINE  
CA 54. 95830ORGAN, SOLIDCAL D 1.4081 NO2824.0 0444444 T 115.00  
C 5 M 5 B 1 CL 3 N 1  
MW 196.29 MI 14.69 MA 0.0635 MD 2.16 EM 589.56 GR 254.73

BORON TRIFLUORIDE-PYRIDINE  
CA 53.18624ORGAN,UNKNOWNEST D 1.5000 NO 739.0 0411444 T -0.  
C 5 M 5 B 1 F 3 N 1  
MW 146.92 MI 14.96 MA 0.0920 MD 3.07 EM 8.44 GR 3.96

BORON TRICHLORIDE-PYRIDINIUM CHLORIDE  
CA 51.12728ORGAN, SOLIDCAL D 1.5851 NO2825.0 0441444 T 119.90  
C 5 M 6 B 1 CL 4 N 1  
MW 232.76 MI 16.89 MA 0.0693 MD 2.46 EM 784.74 GR 321.89

PYRIDINIUM TETRAFLUOROBORATE  
CA 52.19318ORGAN, SOLIDCAL D 1.2485 NO2826.0 0444444 T 212.90  
C 5 M 6 B 1 F 4 N 1  
MW 166.93 MI 17.23 MA 0.0777 MD 2.70 EM 7.25 GR 3.27

A 72

BORON TRICHLORIDE-BUTYL FORMATE  
CA 52. 1950ORGAN,UNKNOWNEST D 1.2700 NO 745.0 0444444 T -0.  
C 5 M 10 B 1 CL 3 O 2  
MW 219.83 MI 20.80 MA 0.0718 MD 3.49 EM 592.15 GR 206.93

BORON TRICHLORIDE-PROPYL ACETATE  
CA 52. 1450ORGAN,UNKNOWNEST D 1.2700 NO 746.0 0444444 T -0.  
C 5 M 10 B 1 CL 3 O 2  
MW 219.83 MI 20.80 MA 0.0718 MD 3.49 EM 592.15 GR 206.93

BORON TRIFLUORIDE-PENTANONE  
CA 46. 74710ORGAN,LIQUIDEST D 1.1400 NO 747.0 0444444 T -18.00  
C 5 M 10 B 1 F 3 O 1  
MW 159.95 MI 19.88 MA 0.0887 MD 4.46 EM 9.03 GR 4.03

BORON TRIFLUORIDE-(2-BUTANONE)  
CA 47. 91270ORGAN,UNKNOWNEST D 1.1400 NO 748.0 0444444 T -0.  
C 5 M 10 B 1 F 3 O 1  
MW 159.95 MI 19.88 MA 0.0887 MD 4.46 EM 9.03 GR 4.03

BORON TRIFLUORIDE-TETRAHYDROPYRAN  
CA 52.19370ORGAN,LIQUIDEST D 1.1400 NO 749.0 0444444 T 10.00  
C 5 M 10 B 1 F 3 O 1  
MW 159.95 MI 19.88 MA 0.0887 MD 4.46 EM 9.03 GR 4.03

BORON TRIFLUORIDE-PROPYL ACETATE  
CA 47. 91270ORGAN,LIQUIDKNO D 1.2234 NO 71.0 0444044 T 14.70  
C 5 M 10 B 1 F 3 O 2  
MW 169.95 MI 20.87 MA 0.0903 MD 4.34 EM 9.04 GR 3.92

BORON TRIFLUORIDE-PROPYLACETATE  
CA 47. 91270ORGAN,LIQUIDKNO D 1.2000 NO 402.0 0444444 T 14.70  
C 5 M 10 B 1 F 3 O 2  
MW 169.95 MI 20.87 MA 0.0888 MD 4.25 EM 9.04 GR 3.84

DIETHYLNITRIUM TETRAFLUOROBORATE  
CA 50.10472ORGAN, SOLIDCAL D 1.0906 NO2832.0 0441444 T 71.90  
C 5 M 10 B 1 N 1  
MW 170.96 MI 21.23 MA 0.0817 MD 3.84 EM 10.19 GR 3.91

DIMETHYLPHENYLBORINE  
CA 49. 80280ORGAN,UNKNOWNEST D 0.7000 NO 750.0 0414444 T -0.  
C 5 M 11 B 1  
MW 91.96 MI 16.02 MA 0.0824 MD 5.66 EM 9.34 GR 4.91

N-ARYLOLCHLOROBORANE  
JACS 79. 31820ORGAN,LIQUIDKNO D 0.7804 NO 168.0 0444444 T -0.  
C 5 M 11 B 1 CL 2  
MW 152.88 MI 18.42 MA 0.0712 MD 4.25 EM 398.56 GR 153.91

A 73

DICHLOROISOPENTYLBORANE  
CA 534 12090ORGAN.LIQUIDKNO D 0.9940 NO 404.0 04144444 T -0.  
C 5 H 11 B 1 I 2  
Mw 152.88 MI 18.42 MA 0.0721 MD 4.31 EM 398.44 GR 150.04

NEOPENTYLOXYDICHLOROBORANE  
CA 51. 9476ORGAN.LIQUIDKNO D 1.0560 NO 169.0 04444444 T -0.  
C 5 H 11 B 1 I 2  
Mw 168.88 MI 19.41 MA 0.0731 MD 4.14 EM 398.44 GR 150.07

DICHLORO(2,2-DIMETHYLPPOXY)BORANE  
CA 50. 7716ORGAN.UNKNOWKNO D 1.0320 NO 170.0 04444444 T -0.  
C 5 H 11 B 1 I 2  
Mw 168.88 MI 19.41 MA 0.0714 MD 4.05 EM 398.44 GR 146.66

DICHLOROBORANE-TETRAHYDROPYRAN  
CA 53. 7851ORGAN.LIQUIDEST D 1.0500 NO 751.0 04444444 T 12.50  
C 5 H 11 B 1 I 2  
Mw 168.88 MI 19.41 MA 0.0727 MD 4.12 EM 398.44 GR 149.22

BORON TRICHLORIDE-PIPERIDINE  
CA 54. 9583ORGAN. SOLIDCAL D 1.2383 NO2833.0 04444444 T 184.00  
C 5 H 11 B 1 I 2  
Mw 202.34 MI 20.69 MA 0.0765 MD 4.05 EM 593.96 GR 218.93

N-AMYLDFLUOROBORANE  
CA 50. 4772ORGAN.LIQUIDKNO D 0.8550 NO 171.0 04144444 T -0.  
C 5 H 11 B 1 F 2  
Mw 119.96 MI 18.60 MA 0.0798 MD 4.72 EM 9.69 GR 4.16

I-AMYLDFLUOROBORANE  
CA 50. 4772ORGAN.LIQUIDKNO D 0.8448 NO 172.0 04444444 T -0.  
C 5 H 11 B 1 F 2  
Mw 119.96 MI 18.60 MA 0.0789 MD 4.67 EM 9.69 GR 4.11

ISOAMYLDFLUOROBORANE  
CA 50. 4772ORGAN.LIQUIDKNO D 0.8409 NO 173.0 04444444 T -0.  
C 5 H 11 B 1 F 2  
Mw 119.96 MI 18.60 MA 0.0785 MD 4.64 EM 9.69 GR 4.09

BORON TRIFLUORIDE-PIPERIDINE  
CA 54. 11032ORGAN.UNKNOWEST U 1.4500 NO 752.0 04444444 T -0.  
C 5 H 11 B 1 F 3 N 1  
Mw 152.97 MI 20.96 MA 0.1197 MD 6.28 EM 10.85 GR 6.19

BORON TRIFLUORIDE-(4-METHYLMORPHOLINE)  
CA 54. 11032ORGAN.UNKNOWCAL D 1.0934 NO2834.0 04444444 T -0.  
C 5 H 11 B 1 F 3 N 1 U 1  
Mw 168.97 MI 21.95 MA 0.0856 MD 4.29 EM 10.85 GR 4.23

A 75

MONOCHLOROBORANE-TETRAHYDROPYRAN  
CA 53. 7851ORGAN. SOLIDEST D 1.0500 NO 759.0 04444444 T 19.50  
C 5 H 12 B 1 I 2  
Mw 134.43 MI 19.21 MA 0.0904 MD 5.65 EM 204.73 GR 96.32

BORON TRIFLUORIDE-AMYL ALCOHOL  
CA 53. 5442ORGAN.UNKNOWEST D 1.1500 NO 760.0 04444444 T -0.  
C 5 H 12 B 1 F 3 O 1  
Mw 155.97 MI 21.88 MA 0.0972 MD 5.33 EM 10.50 GR 4.66

BORON TRIFLUORIDE-ISOPENTYL ALCOHOL  
CA 53. 5442ORGAN.UNKNOWEST D 1.1500 NO 761.0 04444444 T -0.  
C 5 H 12 B 1 F 3 O 1  
Mw 155.97 MI 21.88 MA 0.0972 MD 5.33 EM 10.50 GR 4.66

PIPERIDINIUM TETRAFLUOROBORATE  
CA 54. 11032ORGAN. SOLIDCAL D 1.0948 NO2836.0 04444444 T -0.  
C 5 H 12 B 1 F 4 N 1  
Mw 172.98 MI 23.25 MA 0.0854 MD 4.41 EM 11.65 GR 4.28

4-METHYLMORPHOLINE TETRAFLUOROBORATE  
CA 54. 11032ORGAN. SOLIDCAL D 1.0933 NO2837.0 04444444 T -0.  
C 5 H 12 B 1 F 4 N 1 O 1  
Mw 188.98 MI 24.24 MA 0.0845 MD 4.18 EM 11.65 GR 4.06

ETHOXYDIMETHYLAMINOCARBONIUM FLUOROBORATE  
CA 51. 10472ORGAN. SOLIDCAL D 1.0933 NO2838.0 04444444 T -0.  
C 5 H 12 B 1 F 4 N 1 O 1  
Mw 188.98 MI 24.24 MA 0.0845 MD 4.18 EM 11.65 GR 4.06

PIPERIDINOBORANE  
CA 50. 14753ORGAN. SOLIDEST D 0.8500 NO 762.0 04444444 T 111.00  
C 5 H 12 B 1 N 1  
Mw 96.98 MI 18.09 MA 0.0955 MD 6.34 EM 11.36 GR 6.00

2-DIMETHYLAMINO-4-METHYL-1,3,2-DIOXABOROLANE  
CA 53. 20104ORGAN.LIQUIDEST D 0.9000 NO 763.0 04444444 T -0.  
C 5 H 12 B 1 N 1 O 2  
Mw 128.98 MI 20.07 MA 0.0844 MD 5.04 EM 11.36 GR 4.77

DIBORANE-PERFLUOROGUANTADINIDE  
AD233. 5150ORGAN.LIQUIDCAL D 1.2212 NO4439.0 04444444 T -0.  
C 5 H 12 B 3 F 6 N 3  
Mw 280.63 MI 29.41 MA 0.0844 MD 1.39 EM 16.74 GR 4.73

DIMETHYLPROPYLBORINE  
CA 52. 4474ORGAN.UNKNOWEST D 0.6500 NO 764.0 04144444 T -0.  
C 5 H 13 B 1  
Mw 83.98 MI 18.02 MA 0.0840 MD 6.06 EM 11.01 GR 5.13

A 74

CYANOBORANE-TRIMETHYLSILYL CYANIDE  
AD232. 0940ORGAN.UNKNOWCAL D 1.0266 NO4263.0 04444444 T -0.  
C 5 H 11 B 1 N 2  
Mw 136.07 MI 10.42 MA 0.0870 MD 4.93 EM 12.48 GR 5.59

1-METHOXYBOROLANE  
CA 54. 6688ORGAN.UNKNOWEST D 0.9000 NO 753.0 04444444 T -0.  
C 5 H 11 B 1 O 1  
Mw 97.96 MI 17.01 MA 0.0941 MD 6.09 EM 9.55 GR 5.28

CYCLOC ETHYLENE PROPYLBORONATE  
CA 53. 12161ORGAN.UNKNOWEST D 0.9200 NO 754.0 04444444 T -0.  
C 5 H 11 B 1 O 2  
Mw 113.96 MI 18.00 MA 0.0875 MD 5.35 EM 9.55 GR 4.64

DI-METHYL 2 PROPENE-1-BORONATE  
CA 53. 6991ORGAN.LIQUIDKNO D 0.8671 NO 411.0 04444444 T -0.  
C 5 H 11 B 1 O 2  
Mw 113.96 MI 18.00 MA 0.0825 MD 5.04 EM 9.55 GR 4.38

ETHYLENE PROPYL BORATE  
CA 52. 4472ORGAN.UNKNOWEST D 0.9500 NO 755.0 04444444 T -0.  
C 5 H 11 B 1 O 3  
Mw 129.96 MI 18.99 MA 0.0836 MD 4.84 EM 9.55 GR 4.20

ETHYLENE ISOPROPYL BORATE  
CA 54. 10512ORGAN.UNKNOWEST D 0.9500 NO 756.0 04444444 T -0.  
C 5 H 11 B 1 O 3  
Mw 129.96 MI 18.99 MA 0.0836 MD 4.84 EM 9.55 GR 4.20

CYCLOC BORATE OF 2,4-PENTANEDIOL  
CA 54. 8627ORGAN.UNKNOWEST D 0.9500 NO 757.0 04444444 T -0.  
C 5 H 11 B 1 O 3  
Mw 129.96 MI 18.99 MA 0.0836 MD 4.84 EM 9.55 GR 4.20

2-HYDROXY-4,6-DIMETHYL-1,3,2-DIOXABORINANE  
CA 51. 5847ORGAN. SOLIDEST D 0.9500 NO 758.0 04444444 T -0.  
C 5 H 11 B 1 O 3  
Mw 129.96 MI 18.99 MA 0.0836 MD 4.84 EM 9.55 GR 4.20

3-O-SEC-BUTYL METHANESULFONATE  
CA 52. 1047ORGAN.LIQUIDKNO D 1.1100 NO 410.0 04444444 T -0.  
C 5 H 11 B 1 O 3  
Mw 162.02 MI 20.29 MA 0.0837 MD 4.54 EM 10.31 GR 4.75

DIBORANE-PYRIDINE  
CA 55. 1941ORGAN.UNKNOWCAL D 0.9053 NO2835.0 04444444 T -0.  
C 5 H 11 B 2 N 1  
Mw 106.79 MI 18.06 MA 0.0922 MD 5.62 EM 12.02 GR 6.13

A 76

BORON TRIFLUORIDE-IN-METHYLDIETHYLAMINE  
CA 54. 11032ORGAN.UNKNOWEST D 1.4500 NO 765.0 04444444 T -0.  
C 5 H 13 B 1 F 3 N 1  
Mw 154.49 MI 22.96 MA 0.1294 MD 7.33 EM 12.31 GR 6.94

2-PROPYL-2-BORANE-1,5-DIAZOLIDINE  
CA 54. 9140ORGAN.LIQUIDKNO D 0.9406 NO 403.0 04444444 T -0.  
C 5 H 13 B 1 N 2  
Mw 111.94 MI 20.16 MA 0.1020 MD 6.58 EM 13.17 GR 6.66

BORANE-TERTBUTYL ALDEHYDE  
CA 50. 7134ORGAN.UNKNOWEST D 0.8000 NO 766.0 04444444 T -0.  
C 5 H 13 B 1 O 1  
Mw 99.98 MI 19.01 MA 0.0916 MD 6.27 EM 11.01 GR 5.31

BORANE-TETRAHYDROPYRAN  
CA 52. 1957ORGAN.UNKNOWCAL D 0.8221 NO2839.0 04444444 T -0.  
C 5 H 13 B 1 O 1  
Mw 99.98 MI 19.01 MA 0.0916 MD 6.44 EM 11.01 GR 5.45

ISOAMYLDIHYDROXYBORANE  
CA 51. 6532ORGAN.UNKNOWEST D 0.9900 NO 767.0 04444444 T -0.  
C 5 H 13 B 1 O 2  
Mw 115.98 MI 20.00 MA 0.1028 MD 6.68 EM 11.02 GR 5.66

ANYLBORONIC ACID  
GM 13. 2260ORGAN.UNKNOWEST D 0.9900 NO 768.0 04444444 T -0.  
C 5 H 13 B 1 O 2  
Mw 115.98 MI 20.00 MA 0.1028 MD 6.68 EM 11.02 GR 5.66

TEAT-ANYLBORONIC ACID  
CA 50. 4772ORGAN.UNKNOWEST D 0.9900 NO 769.0 04444444 T -0.  
C 5 H 13 B 1 O 2  
Mw 115.98 MI 20.00 MA 0.1028 MD 6.68 EM 11.02 GR 5.66

ETHYL DIFLUOROBORINE-TRIMETHYLAMINE  
CA 50. 16663ORGAN. SOLIDEST D 1.0700 NO 771.0 04444444 T 25.30  
C 5 H 14 B 1 F 2 N 1  
Mw 136.99 MI 22.67 MA 0.1067 MD 6.59 EM 12.97 GR 6.10

BORON TRIFLUORIDE-(1,5-PENTAMEDIAMINE)  
CA 54. 8395ORGAN.UNKNOWCAL D 0.9923 NO2840.0 04444444 T -0.  
C 5 H 14 B 1 F 3 N 2  
Mw 170.00 MI 23.03 MA 0.0880 MD 4.92 EM 14.13 GR 4.97

BORON TRIFLUORIDE-METHANOL-DIETHYL ETHER  
CA 53. 21664ORGAN.LIQUIDEST D 1.2000 NO 772.0 04444444 T -0.  
C 5 H 14 B 1 F 3 O 2  
Mw 173.99 MI 24.87 MA 0.1033 MD 4.82 EM 11.97 GR 4.97

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3,5-DICHLOROBENZENE DIAZONIUM TETRAFLUOROBORATE  
CA 51.1603ORGAN, UNKNOWNCAL D 1.5069 NO2859.0 04444444 T -0.  
C 6 H 3 B 1 CL 2 F 4 N 2  
MW 260.84 MI 18.53 MA 0.0645 MD 1.04 EM 395.04 GR 137.40

2,6-DICHLOROBENZENE DIAZONIUM TETRAFLUOROBORATE  
CA 52.2012ORGAN, UNKNOWNCAL D 1.5069 NO2860.0 04444444 T -0.  
C 6 H 3 B 1 CL 2 F 4 N 2  
MW 260.84 MI 18.53 MA 0.0645 MD 1.04 EM 395.04 GR 137.46

1,2,2,2-TETRACHLOROETHYL BORATE  
CA 51.9621ORGAN, UNKNOWNCAL D 1.7020 NO 174.0 04444441 T -0.  
C 6 H 3 B 1 CL 12 O 3  
MW 559.39 MI 26.20 MA 0.0480 MD 0.55 EM 2337.05 GR 428.30

2,6-DINITROBENZENE DIAZONIUM FLUOROBORATE  
CA 52.9003ORGAN, SOLIDCAL D 1.3129 NO2861.0 04444444 T 96.50  
C 6 H 3 B 1 F 4 N 4 O 4  
MW 281.94 MI 22.23 MA 0.0624 MD 0.84 EM 8.31 GR 2.33

2,1-DINITROBENZENE DIAZONIUM TETRAFLUOROBORATE  
CA 52.9003ORGAN, SOLIDCAL D 1.3129 NO2862.0 04444444 T 170.00  
C 6 H 3 B 1 F 4 N 4 O 4  
MW 281.94 MI 22.23 MA 0.0624 MD 0.84 EM 8.31 GR 2.33

MONONITROBENZENE DIAZONIUM FLUOROBORATE  
CA 51.9621ORGAN, SOLIDCAL D 1.4359 NO2863.0 04444444 T -0.  
C 6 H 3 B 1 F 4 N 4 O 4  
MW 295.91 MI 22.31 MA 0.0638 MD 0.88 EM 4.14 GR 1.21

PARA-CHLOROBENZENE DIAZONIUM FLUOROBORATE  
CA 51.8057ORGAN, UNKNOWNCAL D 1.3607 NO2864.0 04444444 T -0.  
C 6 H 4 B 1 CL 1 F 4 N 2  
MW 226.39 MI 18.33 MA 0.0664 MD 1.45 EM 201.32 GR 72.88

META-CHLOROBENZENE DIAZONIUM FLUOROBORATE  
CA 47.1228ORGAN, SOLIDEST D 1.1800 NO 790.0 04444444 T 178.50  
C 6 H 4 B 1 CL 1 F 4 N 2  
MW 138.37 MI 12.02 MA 0.0617 MD 2.05 EM 198.87 GR 102.15

PARA-CHLOROBENZENE DIAZONIUM FLUOROBORATE  
CA 47.1228ORGAN, SOLIDEST D 1.1800 NO 791.0 04444444 T 282.00  
C 6 H 4 B 1 CL 1 F 4 N 2  
MW 138.37 MI 12.02 MA 0.0617 MD 2.05 EM 198.87 GR 102.15

2-CHLORO-1,3,7-BENZODIOXABOROLE  
CA 53.21405ORGAN, UNKNOWNEST D 1.1000 NO 792.0 04444444 T -0.  
C 6 H 4 B 1 CL 1 O 2  
MW 156.37 MI 13.01 MA 0.0558 MD 1.77 EM 196.87 GR 83.36

A 82

1,3-BIS-(DICHLOROBUTYL)-BENZENE  
CA 51.1544ORGAN, LIQUIDCAL D 1.7269 NO2873.0 04444444 T -0.  
C 6 H 4 B 2 CL 4  
MW 239.57 MI 15.60 MA 0.0677 MD 1.74 EM 703.60 GR 340.24

1,4-BIS-(DICHLOROBUTYL)-BENZENE  
CA 51.1544ORGAN, SOLIDCAL D 1.7269 NO2874.0 04444444 T 94.50  
C 6 H 4 B 2 CL 4  
MW 239.57 MI 15.60 MA 0.0677 MD 1.74 EM 783.60 GR 340.24

METAPHENYLENEBIS(DIAZONIUM FLUOROBORATE)  
CA 53.14976ORGAN, UNKNOWNCAL D 1.2903 NO2875.0 04444444 T -0.  
C 6 H 4 B 2 F 8 N 4  
MW 305.77 MI 25.40 MA 0.0646 MD 1.02 EM 10.72 GR 2.71

PARA-PHENYLENEBIS(DIAZONIUM FLUOROBORATE)  
CA 52.3714ORGAN, UNKNOWNEST D 1.0000 NO 797.0 04044444 T -0.  
C 6 H 4 B 2 F 8 N 4  
MW 129.74 MI 12.78 MA 0.0593 MD 1.88 EM 5.82 GR 2.70

DICHLOROPHENYLBORINE  
JACS 79.5185ORGAN, LIQUIDKNO D 1.2030 NO 175.0 04444444 T 0.  
C 6 H 5 B 1 CL 2  
MW 158.84 MI 13.23 MA 0.0604 MD 2.28 EM 394.05 GR 174.76

DICHLOROPHENYLBORANE  
CA 50.1642ORGAN, UNKNOWNEST D 1.2100 NO 798.0 04444444 T -0.  
C 6 H 5 B 1 CL 2 O 1  
MW 174.84 MI 14.22 MA 0.0593 MD 2.08 EM 394.05 GR 164.26

MONONITROBENZENE DIAZONIUM FLUOROBORATE  
CA 50.14746ORGAN, SOLIDCAL D 1.4484 NO2876.0 04444444 T 57.50  
C 6 H 5 B 1 CL 1 F 4 N 2  
MW 240.30 MI 17.48 MA 0.0635 MD 1.82 EM 589.58 GR 214.05

BORON TRICHLORIDE-BENZENE CHLORIDE  
CA 50.12721ORGAN, LIQUIDCAL D 1.5836 NO2877.0 04444444 T -13.80  
C 6 H 5 B 1 CL 3  
MW 229.75 MI 15.63 MA 0.0649 MD 2.08 EM 782.94 GR 325.04

DIFLUOROPHENYLBORINE  
JACS 79.5185ORGAN, LIQUIDKNO D 1.0870 NO 176.0 04114444 T -0.  
C 6 H 5 B 1 F 2  
MW 125.93 MI 13.41 MA 0.0697 MD 2.60 EM 5.31 GR 2.76

BORON TRIFLUORIDE-NITROBENZENE  
CA 50.14746ORGAN, SOLIDCAL D 1.2343 NO2878.0 04444444 T 64.50  
C 6 H 5 B 1 F 3 N 1 O 2  
MW 190.93 MI 17.75 MA 0.0691 MD 1.95 EM 6.40 GR 2.52

A 83

UICHLORO-PARA-NITROPHENOLYLBORANE  
CA 51.2771ORGAN, UNKNOWNCAL D 1.4681 NO2865.0 04444444 T -0.  
C 6 H 4 B 1 CL 2 N 1 O 3  
MW 219.84 MI 16.27 MA 0.0654 MD 1.61 EM 394.40 GR 158.65

DICHLORO-ORTHO-NITROPHENOLYLBORANE  
CA 52.1954ORGAN, SOLIDCAL D 1.4681 NO2866.0 04444444 T 63.00  
C 6 H 4 B 1 CL 2 N 1 O 3  
MW 219.84 MI 16.27 MA 0.0654 MD 1.61 EM 394.40 GR 158.65

DICHLORO-PARA-CHLOROPHENYLBORINE  
CA 51.4985ORGAN, LIQUIDEST D 1.3100 NO 796.0 04444444 T -0.  
C 6 H 4 B 1 CL 3  
MW 193.29 MI 13.43 MA 0.0348 MD 1.63 EM 587.76 GR 239.94

BORON TRICHLORIDE-ISONITROBENZENE  
CA 52.1371ORGAN, UNKNOWNCAL D 1.5077 NO2867.0 04444444 T -0.  
C 6 H 4 B 1 CL 3 N 2  
MW 221.30 MI 19.57 MA 0.0639 MD 1.64 EM 589.92 GR 262.07

BORON TRICHLORIDE-METAPHENYLENEBIS(DIAZONIUM FLUOROBORATE)  
CA 52.3714ORGAN, SOLIDCAL D 1.5077 NO2868.0 04444444 T -0.  
C 6 H 4 B 1 CL 3 N 2  
MW 221.30 MI 19.57 MA 0.0639 MD 1.64 EM 589.92 GR 262.07

DICHLORO-ORTHO-CHLOROPHENOLYLBORANE  
CA 51.2771ORGAN, UNKNOWNEST D 1.3100 NO 795.0 04144441 T -0.  
C 6 H 4 B 1 CL 3 O 1  
MW 209.29 MI 14.42 MA 0.0564 MD 1.51 EM 587.76 GR 221.60

PARA-NITROBENZENE DIAZONIUM TETRAFLUOROBORATE  
CA 52.9148ORGAN, SOLIDCAL D 1.2657 NO2869.0 04444444 T 154.00  
C 6 H 4 B 1 F 4 N 3 O 2  
MW 238.94 MI 20.18 MA 0.0649 MD 1.29 EM 7.96 GR 2.56

ORTHO-NITROBENZENE DIAZONIUM FLUOROBORATE  
CA 53.8037ORGAN, UNKNOWNCAL D 1.2657 NO2870.0 04444444 T -0.  
C 6 H 4 B 1 F 4 N 3 O 2  
MW 238.94 MI 20.18 MA 0.0649 MD 1.29 EM 7.96 GR 2.56

META-CHLOROBENZYL-NITROBENZENE  
CA 47.1228ORGAN, SOLIDCAL D 1.2929 NO2871.0 04444444 T 780.50  
C 6 H 4 B 1 N 1 O 3  
MW 148.93 MI 13.87 MA 0.0725 MD 2.09 EM 5.51 GR 2.88

ORTHO-PHENYLENE SODIUM BORATE  
CA 54.8608ORGAN, SOLIDCAL D 1.2907 NO2872.0 04444444 T -0.  
C 6 H 4 B 1 Na 1 O 3  
MW 137.91 MI 14.01 MA 0.0690 MD 1.97 EM 8.32 GR 4.10

A 84

BENZENE DIAZONIUM TETRAFLUOROBORATE  
CA 54.1403ORGAN, UNKNOWNCAL D 1.2022 NO2879.0 04444444 T -0.  
C 6 H 5 B 1 F 4 N 2  
MW 191.94 MI 18.13 MA 0.0684 MD 1.89 EM 7.61 GR 2.87

HYDROXY BENZENE DIAZONIUM FLUOROBORATE  
CA 53.21780ORGAN, UNKNOWNCAL D 1.2137 NO2880.0 04444444 T -0.  
C 6 H 5 B 1 F 4 N 2 O 1  
MW 207.94 MI 19.12 MA 0.0672 MD 1.76 EM 7.61 GR 2.68

POLYMERIC PHENYLDIAZOBORON  
AD 79.853ORGAN, SOLPOLCAL D 1.3634 NO4460.0 04040410 T -0.  
C 6 H 5 B 1 N 2  
MW 115.94 MI 12.97 MA 0.0919 MD 3.94 EM 7.32 GR 5.18

SODIUM DIOXYPHENYLBORATE  
CA 44.10173ORGAN, UNKNOWNCAL D 1.3199 NO2881.0 01444444 T -0.  
C 6 H 5 B 1 Na 2 O 2  
MW 165.91 MI 13.23 MA 0.0730 MD 2.40 EM 12.95 GR 6.21

OXYBOROYL-BENZENE  
CA 51.12843ORGAN, SOLIDEST D 1.0000 NO 799.0 04444444 T 209.00  
C 6 H 5 B 1 O 1  
MW 103.93 MI 11.82 MA 0.0685 MD 2.90 EM 5.16 GR 2.99

PARA-OXYBOROYL-HYDROXYBENZENE  
CA 51.15441ORGAN, SOLIDEST D 1.2000 NO 800.0 04444444 T -0.  
C 6 H 5 B 1 O 2  
MW 114.93 MI 12.81 MA 0.0772 MD 3.01 EM 5.16 GR 3.11

ORTHO-OXYBOROYL-HYDROXYBENZENE  
CA 51.15441ORGAN, SOLIDEST D 1.2000 NO 801.0 04444444 T 177.00  
C 6 H 5 B 1 O 2  
MW 114.93 MI 12.81 MA 0.0772 MD 3.01 EM 5.16 GR 3.11

META-OXYBOROYL-HYDROXYBENZENE  
CA 51.15441ORGAN, SOLIDEST D 1.2000 NO 802.0 04444444 T 220.00  
C 6 H 5 B 1 O 2  
MW 114.93 MI 12.81 MA 0.0772 MD 3.01 EM 5.16 GR 3.11

ORTHO-PHENYLENE HYDROGEN BORATE  
CA 53.21405ORGAN, SOLIDEST D 1.2500 NO 803.0 04444444 T 72.50  
C 6 H 5 B 1 O 3  
MW 135.93 MI 13.80 MA 0.0764 MD 2.77 EM 5.16 GR 2.86

BORON TRIFLUORIDE-ORTHO-CHLOROPHENYLARINE  
NACN 37219ORGAN, SOLIDCAL D 1.5230 NO2882.0 04444444 T -0.  
C 6 H 4 B 1 CL 1 F 3 N 1  
MW 195.40 MI 17.97 MA 0.0844 MD 2.82 EM 201.64 GR 94.67



A 89

BORON TRIFLUORIDE-META-CHLOROPHENYLAMINE  
NACN 372190ORGAN. SOLIDICAL D 1.2275 NO2883.0 04444444 T -0.  
C 6 M 6 B ICL 1 F 3 N 1  
MW 195.40 MI 17.97 MA 0.0680 HD 2.27 EM 201.64 GR 76.30

BORON TRIFLUORIDE-PARA-CHLOROPHENYLAMINE  
NACN 372190ORGAN. SOLIDICAL D 1.2275 NO2884.0 04444444 T 198.00  
C 6 M 6 B ICL 1 F 3 N 1  
MW 195.40 MI 17.97 MA 0.0680 HD 2.27 EM 201.64 GR 76.30

BORON CHLORIDE-PHENYLAMINE  
AD230. 9440ORGAN. UNKNOWCAL D 1.1672 NO4201.0 04444444 T -0.  
C 6 M 6 B ICL 1 N 1  
MW 136.40 MI 19.10 MA 0.0716 HD 3.05 EM 201.42 GR 102.32

2-CHLORO-1,3,2 BENZODIAZO-BOROLINE  
AD256. 4200ORGAN. LIQUIDICAL D 1.1430 NO4461.0 04444444 T -0.  
C 6 M 6 B ICL 1 N 2  
MW 152.41 MI 19.17 MA 0.0685 HD 2.71 EM 202.50 GR 91.47

PARACHLOROPHENYLDIHYDROXYBORANE  
CA 54.10910ORGAN. SOLIDEST D 1.1200 NO 805.0 01444444 T 272.50  
C 6 M 6 B ICL 1 O 2  
MW 156.39 MI 19.01 MA 0.0647 HD 2.59 EM 200.34 GR 86.42

METACHLOROPHENYLDIHYDROXYBORANE  
CA 47.12282ORGAN. UNKNOWEST D 1.1200 NO 806.0 04444444 T -0.  
C 6 M 6 B ICL 1 O 2  
MW 156.39 MI 19.01 MA 0.0647 HD 2.59 EM 200.34 GR 86.42

TRIS(2-CHLOROETHYL)BORINE  
CA 56.17500ORGAN. UNKNOWEST D 1.2600 NO 807.0 04444444 T -0.  
C 6 M 6 B ICL 1 N 3  
MW 195.30 MI 15.43 MA 0.0600 HD 2.33 EM 589.23 GR 728.97

2,2,2-TRICHLOROETHYL BORATE  
CA 50.12600ORGAN. SOLIDEST D 1.6500 NO 808.0 04444444 T 97.50  
C 6 M 6 B ICL 9 O 3  
MW 456.05 MI 25.60 MA 0.0558 HD 1.31 EM 1755.91 GR 382.66

1,2,2-TRICHLOROETHYL BORATE  
CA 51.49210ORGAN. UNKNOWNO D 1.6470 NO 177.0 04444444 T -0.  
C 6 M 6 B ICL 9 O 3  
MW 456.05 MI 25.60 MA 0.0557 HD 1.31 EM 1755.91 GR 381.97

METACHLOROPHENYLDIHYDROXYBORINE  
CA 50.05440ORGAN. SOLIDEST D 1.0500 NO 810.0 04444444 T 212.00  
C 6 M 6 B ICL 1 F 1 O 2  
MW 156.39 MI 19.10 MA 0.0682 HD 2.71 EM 5.97 GR 2.70

A 87

1,1,3,3,3-PENTACHLORO-2,2-DIMETHYL-2-PROPENYLPHOSPHINE  
BURG 6. 2380KNOW SOLIDICAL D 1.4473 NO2892.0 04444444 T -0.  
C 6 M 6 B ICL 3 F 18 P 3  
MW 345.50 MI 40.48 MA 0.0655 HD 0.96 EM 15.48 GR 2.47

PHENYLBORINE  
GR 13. 2200ORGAN. SOLIDEST D 0.8000 NO 814.0 04444444 T 155.00  
C 6 M 7 B 1  
MW 89.94 MI 12.83 MA 0.0687 HD 3.75 EM 6.63 GR 1.55

2-CHLORO-1,3,2 BENZODIAZOBOROLINIUM CHLORIDE  
AD256. 4200ORGAN. SOLIDICAL D 1.1718 NO4462.0 04444444 T -0.  
C 6 M 7 B ICL 2 N 2  
MW 186.87 MI 17.37 MA 0.0649 HD 2.62 EM 197.88 GR 146.82

BORON TRICHLORIDE-PHENYLAMINE  
GR 32. 2510ORGAN. SOLIDICAL D 1.4634 NO2893.0 04444444 T 108.50  
C 6 M 7 B ICL 3 N 1  
MW 210.32 MI 17.50 MA 0.0733 HD 2.93 EM 591.04 GR 247.70

BORON TRICHLORIDE-(4-PICOLINE)  
CA 53.18697ORGAN. UNKNOWCAL D 1.4634 NO2894.0 04444444 T -0.  
C 6 M 7 B ICL 3 N 1  
MW 210.32 MI 17.50 MA 0.0733 HD 2.93 EM 591.04 GR 247.70

BORON TRICHLORIDE-(4-METHOXYPIRIDINE)  
CA 53.21161ORGAN. UNKNOWCAL D 1.47 NO2895.0 04444444 T -0.  
C 6 M 7 B ICL 3 N 1 O 1  
MW 226.31 MI 18.49 MA 0.0723 HD 2.74 EM 591.04 GR 231.21

BORON TRIFLUORIDE-ANILINE  
CA 54.11792ORGAN. SOLIDEST D 1.5500 NO 937.0 04444444 T 159.00  
C 6 M 7 B ICL 1 F 3 N 1  
MW 160.95 MI 17.77 MA 0.1031 HD 4.06 EM 7.93 GR 4.60

BORON TRIFLUORIDE-PICOLINE  
CA 53.18674ORGAN. UNKNOWEST D 1.5500 NO 938.0 04444444 T -0.  
C 6 M 7 B ICL 1 F 3 N 1  
MW 160.95 MI 17.77 MA 0.1031 HD 4.06 EM 7.93 GR 4.60

BORON TRIFLUORIDE-(3-METHYLPIRIDINE)  
CA 50.15750ORGAN. UNKNOWEST D 1.4500 NO 815.0 04444444 T -0.  
C 6 M 7 B ICL 1 F 3 N 1  
MW 160.95 MI 17.77 MA 0.0964 HD 3.80 EM 7.93 GR 4.30

DIMINOPHENYLBORINE (B-N)  
AD230. 9440ORGAN. SOLIDICAL D 0.9316 NO4202.0 04444444 T 79.50  
C 6 M 7 B 1 N 2  
MW 117.96 MI 14.97 MA 0.0712 HD 3.33 EM 8.78 GR 4.18

A 86

PARAFLUOROPHENYLDIHYDROXYBORINE  
CA 50. 63490ORGAN. SOLIDEST D 1.0500 NO 811.0 04444444 T 248.50  
C 6 M 6 B ICL 1 F 3 O 2  
MW 139.93 MI 15.10 MA 0.0682 HD 2.71 EM 5.97 GR 2.70

BORON TRIFLUORIDE-BENZENE  
CA 48.11923ORGAN. UNKNOWCAL D 1.1475 NO2885.0 04444444 T -0.  
C 6 M 6 B ICL 1 F 3  
MW 145.93 MI 15.70 MA 0.0744 HD 2.84 EM 6.11 GR 2.90

BORON TRIFLUORIDE-PHENOL  
CA 52. 8648ORGAN. LIQUIDEST D 1.2000 NO 812.0 04444444 T -0.  
C 6 M 6 B ICL 1 F 3 O 1  
MW 161.93 MI 16.69 MA 0.0745 HD 2.68 EM 6.12 GR 2.73

PARA-AMINOBENZENE DIAZONIUM FLUOROBORATE  
CA 53.21780ORGAN. UNKNOWCAL D 1.1186 NO2886.0 04444444 T -0.  
C 6 M 6 B ICL 1 F 4 N 3  
MW 206.96 MI 20.20 MA 0.0658 HD 1.99 EM 9.42 GR 3.07

TRIS(2-TAIFLUOROETHYL)BORATE  
CA 53. 34310ORGAN. UNKNOWCAL D 1.2653 NO2887.0 04444444 T -0.  
C 6 M 6 B ICL 1 F 9 O 3  
MW 307.93 MI 26.41 MA 0.0654 HD 1.49 EM 6.56 GR 1.62

2,2,2-TRIFLUOROETHYL BORATE  
CA 52.20003ORGAN. LIQUIDICAL D 1.2653 NO2888.0 04444444 T -0.  
C 6 M 6 B ICL 1 F 9 O 3  
MW 307.93 MI 26.41 MA 0.0654 HD 1.49 EM 6.56 GR 1.62

ORTHO-NITROBENZENE-BORONIC ACID  
CA 52.14556ORGAN. UNKNOWCAL D 1.1283 NO2889.0 04444444 T -0.  
C 6 M 6 B ICL 1 N 1 O 4  
MW 166.94 MI 16.86 MA 0.0686 HD 2.44 EM 6.98 GR 2.84

DIHYDROXY(META-NITROPHENYL)BORANE  
CA 47.12282ORGAN. UNKNOWCAL D 1.1283 NO2890.0 04444444 T -0.  
C 6 M 6 B ICL 1 N 1 O 4  
MW 166.94 MI 16.86 MA 0.0686 HD 2.44 EM 6.98 GR 2.84

PARA-NITROBENZENE-BORONIC ACID  
CA 54. 25010ORGAN. UNKNOWCAL D 1.1283 NO2891.0 01444444 T -0.  
C 6 M 6 B ICL 1 N 1 O 4  
MW 166.94 MI 16.86 MA 0.0686 HD 2.44 EM 6.98 GR 2.84

DIBORATE OF SCYLLITOL  
CA 52.16223ORGAN. UNKNOWEST D 1.0500 NO 813.0 04444444 T -0.  
C 6 M 6 B 2 O 4  
MW 195.73 MI 18.74 MA 0.0605 HD 1.94 EM 7.24 GR 2.56

A 84

1,1,2-NITRODIAZOBOROLINE  
AD256. 4200ORGAN. SOLIDICAL D 0.9316 NO4463.0 04444444 T -0.  
C 6 M 7 B ICL 1 N 2  
MW 117.96 MI 14.97 MA 0.0712 HD 3.33 EM 8.78 GR 4.18

PHENYLBORINE  
AD256. 4200ORGAN. SOLIDICAL D 0.4687 NO4464.0 04444444 T -0.  
C 6 M 7 B ICL 1 N 2 O 1  
MW 133.96 MI 19.96 MA 0.0695 HD 3.05 EM 8.79 GR 3.83

3,5-AMINONITROBENZENE-BORONIC ACID  
CA 52.14554ORGAN. SOLIDICAL D 1.1959 NO2896.0 04444444 T -0.  
C 6 M 7 B ICL 1 N 2 O 4  
MW 181.96 MI 18.93 MA 0.0749 HD 2.77 EM 8.79 GR 3.48

3,4-AMINONITROBENZENE-BORONIC ACID  
CA 52.14554ORGAN. SOLIDICAL D 1.1959 NO2897.0 04444444 T -0.  
C 6 M 7 B ICL 1 N 2 O 4  
MW 181.96 MI 18.93 MA 0.0749 HD 2.77 EM 8.79 GR 3.48

2,5-AMINONITROBENZENE-BORONIC ACID  
CA 52.14553ORGAN. SOLIDICAL D 1.1959 NO2898.0 04444444 T -0.  
C 6 M 7 B ICL 1 N 2 O 4  
MW 181.96 MI 18.93 MA 0.0749 HD 2.77 EM 8.79 GR 3.48

AMINO-2-NITROBENZENE-BORONIC ACID  
CA 54. 25010ORGAN. UNKNOWCAL D 1.1959 NO2899.0 04444444 T -0.  
C 6 M 7 B ICL 1 N 2 O 4  
MW 181.96 MI 18.93 MA 0.0749 HD 2.77 EM 8.79 GR 3.48

BENZENE-BORONIC ACID  
GR 13. 2260ORGAN. SOLIDICAL D 1.1900 NO 178.0 04444444 T 217.00  
C 6 M 7 B ICL 1 O 4  
MW 121.96 MI 14.81 MA 0.0671 HD 4.11 EM 6.63 GR 3.90

PARAHYDROXYPHENYLBORONIC ACID  
CA 53.17940ORGAN. SOLIDEST D 1.1000 NO 816.0 04444444 T 230.50  
C 6 M 7 B ICL 1 O 5  
MW 137.96 MI 19.80 MA 0.0759 HD 3.36 EM 6.63 GR 3.18

2-NITROBENZENE-1,4-DIBORONIC ACID  
CA 54.22436ORGAN. SOLIDICAL D 1.2902 NO2900.0 04444444 T 351.00  
C 6 M 7 B ICL 1 N 2 O 6  
MW 210.77 MI 20.01 MA 0.0767 HD 2.58 EM 9.10 GR 3.36

ORTHO-NITROBENZENE-BORONIC ACID  
AD230. 9440ORGAN. UNKNOWCAL D 1.3578 NO4203.0 04444444 T -0.  
C 6 M 6 B ICL 1 N 2  
MW 225.34 MI 19.57 MA 0.0710 HD 2.90 EM 592.86 GR 215.17

A 89

BORON TRIFLUORIDE-ORTHODIAMINOBENZENE  
NACN 34424ORGAN, SOLIDICAL D 1.1272 NO2901.0 04444444 T 406.00  
C 6 H 8 B 1 F 3 N 2  
MW 175.97 MI 19.84 NA 0.0766 MD 3.09 EM 9.74 GR 3.76

ANILINIUM TETRAFLUOROBORATE  
CA 54.11792ORGAN, SOLIDICAL D 1.1673 NO2902.0 04144441 T 265.00  
C 6 H 8 B 1 F 4 N 1  
MW 180.96 MI 20.06 NA 0.0779 MD 3.11 EM 8.73 GR 3.39

LITHIUM MONOPHENYLBOROHYDRIDE  
CA 53.1204ORGAN, SOLIDICAL D 1.0767 NO2903.0 04444444 T -0.  
C 6 H 8 B 1 Li 1  
MW 97.89 MI 14.84 NA 0.0982 MD 5.30 EM 7.44 GR 4.92

SODIUM TRIMOROXY PHENYLBORATE  
CA 51.1882ORGAN, SOLIDICAL D 1.2939 NO2904.0 04444444 T -0.  
C 6 H 8 B 1 Na 3  
MW 161.44 MI 18.01 NA 0.0867 MD 3.85 EM 11.26 GR 9.42

METAMINOPHENYLBORONIC ACID  
CA 54.7964ORGAN, UNKNOWNEST D 1.0000 NO 817.0 01444444 T -0.  
C 6 H 8 B 1 N 1 O 2  
MW 136.96 MI 16.88 NA 0.0742 MD 3.52 EM 8.44 GR 3.71

PARAMINOPHENYLBORONIC ACID  
CA 53.3116ORGAN, UNKNOWNEST D 1.0000 NO 816.0 04144444 T -0.  
C 6 H 8 B 1 N 1 O 2  
MW 136.96 MI 16.88 NA 0.0742 MD 3.52 EM 8.44 GR 3.71

POLYMERIC PHENYLPHOSPHINEBORINE  
CA 54.1540ORGAN, POLYMERICAL D 1.2563 NO4132.0 04444444 T -0.  
C 6 H 8 B 1 P 1  
MW 121.92 MI 15.16 NA 0.0941 MD 4.97 EM 9.18 GR 9.70

N-BIS(DIMETHYLBORONYL)BENZENE  
CA 51.23444ORGAN, SOLIDEST D 1.1000 NO 819.0 04444444 T 420.00  
C 6 H 8 B 2 D 4  
MW 169.77 MI 18.76 NA 0.0750 MD 3.20 EM 8.76 GR 3.90

1,4-BENZENEDIBORONIC ACID  
CA 54.22436ORGAN, SOLIDICAL D 1.1911 NO2905.0 04444444 T 351.00  
C 6 H 8 B 2 O 4  
MW 169.77 MI 18.76 NA 0.0817 MD 3.46 EM 8.76 GR 3.79

P-PHENYLEDIBORONIC ACID  
CA 54.4431ORGAN, SOLIDEST D 1.1000 NO 820.0 04444444 T 420.00  
C 6 H 8 B 2 O 4  
MW 169.77 MI 18.76 NA 0.0750 MD 3.20 EM 8.76 GR 3.90

A 91

BORON TRIFLUORIDE  
GM 13.735ORGAN, SOLIDICAL D 1.1375 NO2913.0 04444444 T 120.00  
C 6 H 8 B 1 F 3  
MW 187.96 MI 20.77 NA 0.0757 MD 3.28 EM 8.10 GR 2.95

BONIC ACID-(CATECHOL-3,3-DISULFONIC ACID)  
CA 54.2362ORGAN, UNKNOWNEST D 1.3699 NO4389.0 04444444 T -0.  
C 6 H 9 B 1 O 11 S 2  
MW 332.08 MI 28.32 NA 0.0704 MD 2.24 EM 4.63 GR 2.39

2,4,6-TRI(2-CHLOROVINYL)BORAZINE  
CA 54.10915ORGAN, SOLIDICAL D 1.3347 NO2914.0 04444444 T 127.80  
C 6 H 9 B 3 Cl 3 N 3  
MW 261.44 MI 23.58 NA 0.0726 MD 2.77 EM 597.45 GR 184.02

TRIS(2-TRICHLOROETHYL)IMINOBORINE  
AD252.094ORGAN, UNKNOWNEST D 1.6565 NO4264.0 04444444 T -0.  
C 6 H 9 B 3 Cl 9 N 3  
MW 474.73 MI 30.78 NA 0.0647 MD 1.89 EM1764.13 GR 370.78

N,N,N-TRIS(2-TRICHLOROETHYL)BORAZINE  
AD242.248ORGAN, SOLIDICAL D 1.6565 NO4465.0 04004444 T 190.50  
C 6 H 9 B 3 Cl 9 N 3  
MW 474.73 MI 30.78 NA 0.0647 MD 1.89 EM1764.13 GR 370.78

N,N,N-TRIS(2-TRIFLUOROETHYL)BORAZINE  
AD233.515ORGAN, SOLIDICAL D 1.2708 NO4466.0 04444440 T 140.50  
C 6 H 9 B 3 F 9 N 3  
MW 326.62 MI 31.59 NA 0.0740 MD 2.11 EM 14.78 GR 3.46

TRIVINYLBOROXIN  
CA 54.1266ORGAN, UNKNOWNEST D 0.9800 NO 822.0 04444444 T -0.  
C 6 H 9 B 3 O 3  
MW 161.40 MI 19.74 NA 0.0721 MD 3.29 EM 10.88 GR 3.97

ACETYLBORONIC AMHYDRIDE  
CA 54.24639ORGAN, SOLIDICAL D 1.2143 NO4390.0 04444444 T 118.00  
C 6 H 9 B 3 O 6  
MW 209.60 MI 22.71 NA 0.0792 MD 3.14 EM 10.89 GR 3.80

DIALKYLALCOXYCHLOROBORANE  
CA 51.2537ORGAN, UNKNOWNEST D 1.0500 NO 823.0 04444444 T -0.  
C 6 H 10 B 1 Cl 1 O 2  
MW 160.42 MI 19.01 NA 0.0749 MD 3.94 EM 203.28 GR 80.14

N-(DIMETHYLBORONYL)PYRROLE  
CA 51.11072ORGAN, LIQUIDEST D 0.8800 NO 824.0 04144441 T -0.  
C 6 H 10 B 1 N 1  
MW 106.97 MI 15.90 NA 0.0837 MD 4.96 EM 9.91 GR 4.91

A 90

TRIVINYLBORINE  
NACN 41624ORGAN, UNKNOWNEST D 0.8000 NO 821.0 04444444 T -0.  
C 6 H 9 B 1  
MW 91.96 MI 14.83 NA 0.0777 MD 4.72 EM 8.09 GR 4.24

BORANE-PHENYLPHOSPHINOUS CHLORIDE  
CA 52.2900ORGAN, LIQUIDICAL D 1.817 NO2906.0 04444441 T -0.  
C 6 H 9 B 1 P 1 Cl 1  
MW 158.38 MI 17.36 NA 0.0835 MD 4.17 EM 204.36 GR 94.58

DI-(2-CHLOROETHYL)ETHANEBORANE  
CA 46.2995ORGAN, LIQUIDICAL D 1.1100 NO 179.0 04444444 T -0.  
C 6 H 9 B 1 Cl 2 O 1  
MW 178.87 MI 18.22 NA 0.0881 MD 3.36 EM 396.99 GR 148.39

2,2-DICHLOROETHYL BORATE  
CA 51.9476ORGAN, UNKNOWNEST D 1.4960 NO 180.0 04444444 T -0.  
C 6 H 9 B 1 Cl 2 O 3  
MW 352.70 MI 25.00 NA 0.0639 MD 2.30 EM1174.77 GR 300.14

TRIMETHYL-DIBORINE-TRIMETHYLAMINE  
CA 53.16663ORGAN, UNKNOWNEST D 1.1963 NO2907.0 04444444 T -0.  
C 6 H 9 B 1 N 1 O 9  
MW 249.97 MI 24.81 NA 0.0715 MD 2.59 EM 9.19 GR 2.65

ANILINIUM HYDROXYTRIFLUOROBORATE  
CA 54.11792ORGAN, UNKNOWNEST D 1.1003 NO2908.0 04444444 T -0.  
C 6 H 9 B 1 F 3 N 1 O 1  
MW 178.97 MI 20.76 NA 0.0769 MD 3.33 EM 9.40 GR 3.48

BORON TRIFLUORIDE-TRIVINYLBOROSPHINE  
CA 52.6188ORGAN, SOLIDICAL D 1.1743 NO2909.0 04444444 T -0.  
C 6 H 9 B 1 F 3 P 1  
MW 179.93 MI 20.03 NA 0.0801 MD 3.60 EM 10.14 GR 4.05

LITHIUM TRIMOROXY(ANILINOMETHYLENE)BORATE  
CA 53.16128ORGAN, UNKNOWNEST D 1.1753 NO2910.0 04444444 T -0.  
C 6 H 9 B 1 Li 1 N 1 O 3  
MW 180.91 MI 19.88 NA 0.0875 MD 3.96 EM 9.29 GR 4.07

3,5-DIAMINOBENZENEBORONIC ACID  
CA 52.14224ORGAN, UNKNOWNEST D 1.0118 NO2911.0 04444444 T -0.  
C 6 H 9 B 1 N 2 O 2  
MW 151.97 MI 18.95 NA 0.0740 MD 3.61 EM 10.29 GR 4.11

2,4-DIAMINOBENZENEBORONIC ACID  
CA 52.14953ORGAN, LIQUIDICAL D 1.0118 NO2912.0 04444444 T -0.  
C 6 H 9 B 1 N 2 O 2  
MW 151.97 MI 18.95 NA 0.0740 MD 3.61 EM 10.29 GR 4.11

A 92

BORANE-(2-METHYLPYRIDINE)  
CA 51.2376ORGAN, SOLIDEST D 0.9000 NO 825.0 04444444 T 50.50  
C 6 H 10 B 1 N 1  
MW 106.97 MI 16.90 NA 0.0856 MD 3.07 EM 9.91 GR 5.02

BORANE-(3-METHYLPYRIDINE)  
CA 51.2376ORGAN, LIQUIDEST D 0.9000 NO 826.0 04444444 T 10.00  
C 6 H 10 B 1 N 1  
MW 106.97 MI 16.90 NA 0.0856 MD 3.07 EM 9.91 GR 5.02

BORANE-(4-METHYLPYRIDINE)  
CA 51.2376ORGAN, SOLIDEST D 0.9000 NO 827.0 04444444 T 75.00  
C 6 H 10 B 1 N 1  
MW 106.97 MI 16.90 NA 0.0856 MD 3.07 EM 9.91 GR 5.02

BORANE-PHENYLPHOSPHINE  
CA 52.2900ORGAN, SOLIDICAL D 1.0866 NO2915.0 04444441 T 32.50  
C 6 H 10 B 1 P 1  
MW 123.94 MI 17.16 NA 0.0406 MD 3.28 EM 10.89 GR 5.62

DICHLOROXYCLOHEXYLBORINE  
JAC579.5162ORGAN, LIQUIDKND D 1.0810 NO 181.0 04444444 T -0.  
C 6 H 11 B 1 Cl 2  
MW 164.89 MI 19.23 NA 0.0759 MD 4.34 EM 378.45 GR 157.35

BORON TRICHLORIDE-AMYLNIPTILE  
CA 54.20969ORGAN, LIQUIDICAL D 1.2916 NO2916.0 04444444 T -0.  
C 6 H 11 B 1 Cl 3  
MW 214.35 MI 21.50 NA 0.0780 MD 3.49 EM 593.48 GR 215.59

CYCLOHEXYLDIFLUOROBORINE  
CA 50.4772ORGAN, LIQUIDKND D 0.9734 NO 182.0 04444444 T -0.  
C 6 H 11 B 1 F 2  
MW 131.97 MI 19.41 NA 0.0862 MD 4.89 EM 9.71 GR 4.31

ORTHOTHYLTIOBUTYROLACTONIUM FLUOROBORATE  
CA 51.10472ORGAN, SOLIDICAL D 1.2302 NO2917.0 04444444 T 75.50  
C 6 H 11 B 1 F 4 O 3 S 1  
MW 218.03 MI 24.28 NA 0.0825 MD 3.74 EM 10.62 GR 3.61

2-ETHOXYTETRAHYDRO-2-FURANOCARBONIUM TETRAFLUOROBORATE  
CA 54.5427ORGAN, SOLIDICAL D 1.1560 NO2918.0 04444444 T -0.  
C 6 H 11 B 1 F 4 O 2  
MW 201.97 MI 23.97 NA 0.0826 MD 3.79 EM 9.86 GR 3.40

(DIYND-2(3H)-FURYLDENE)ETHYLBORONIUM FLUOROBORATE  
CA 54.5427ORGAN, SOLIDICAL D 1.1560 NO2919.0 04444444 T -0.  
C 6 H 11 B 1 F 4 O 2  
MW 201.97 MI 23.97 NA 0.0826 MD 3.79 EM 9.86 GR 3.40

A 93

ORITHO-ETHYL BUTYLACETOXYFLUOROBORATE  
CA 51.10472ORGAN. SOLIDCAL D 1.1500 NO2920.0 04414444 T 42.00  
C 6 H 11 B 1 F 4 O 2  
MW 201.97 MI 23.97 NA 0.0826 MD 3.79 EM 9.86 GR 3.40

CYCLOHEXYL BORATE  
CA 53.8610ORGAN. UNKNOWNEST D 0.9100 NO 828.0 04444444 T -0.  
C 6 H 11 B 1 O 2  
MW 129.97 MI 18.81 NA 0.0818 MD 4.79 EM 9.56 GR 4.16

3-AMINOMETHYLTRIPTYCH-BUNDAZOLUINE  
CA 54.24681ORGAN. LIQUIDCAL D 1.0235 NO2921.0 04444444 T -0.  
C 6 H 11 B 1 N 1 O 3  
MW 155.98 MI 20.87 NA 0.0825 MU 4.95 EM 10.64GR 4.20

DIETHYLENE ETHYLENE DIBORINE  
CA 54.8607ORGAN. LIQUIDKNO D 0.9330 NO 396.0 04444444 T -0.  
C 6 H 12 B 1 CL 1 D 1  
MW 146.44 MI 20.02 NA 0.0768 MD 4.61 EM 204.76 GR 78.57

213-CHLOROPROP-1-OXY11,3,2-DIOXOBORINANE  
CA 54.22337ORGAN. LIQUIDCAL D 1.0953 NO2922.0 04444444 T -0.  
C 6 H 12 B 1 CL 1 D 3  
MW 178.44 MI 22.00 NA 0.0813 MD 4.44 EM 204.75 GR 75.70

DICHLORO-CYCLOHEXYLAMINO-BORINE  
CA 53.70659ORGAN. SOLIDEST D 1.0800 NO 829.0 04444444 T 142.50  
C 6 H 12 B 1 CL 2 N 1  
MW 179.90 MI 21.30 NA 0.0770 MD 4.34 EM 400.27 GR 144.73

CHLORURIS(3-CHLOROPROPYL)BORINE  
CA 53.9030ORGAN. UNKNOWNEST D 1.1600 NO 830.0 04444444 T -0.  
C 6 H 12 B 1 CL 3  
MW 201.35 MI 21.43 NA 0.0744 MD 4.16 EM 593.63 GR 206.00

BORON TRICHLORIDE-BUTYL ACETATE  
CA 52.1956ORGAN. UNKNOWNEST D 1.2400 NO 831.0 04444444 T -0.  
C 6 H 12 B 1 CL 3 O 2  
MW 233.35 MI 23.41 NA 0.0749 MD 3.84 EM 593.64 GR 190.01

BORON TRICHLORIDE-SEC-BUTYL ACETATE  
CA 52.1956ORGAN. UNKNOWNEST D 1.2400 NO 832.0 04444444 T -0.  
C 6 H 12 B 1 CL 3 O 2  
MW 233.35 MI 23.41 NA 0.0749 MD 3.84 EM 593.64 GR 190.01

BORON TRICHLORIDE-TERT-BUTYL ACETATE  
CA 52.1956ORGAN. UNKNOWNEST D 1.2400 NO 833.0 04444444 T -0.  
C 6 H 12 B 1 CL 3 O 2  
MW 233.35 MI 23.41 NA 0.0749 MD 3.84 EM 593.64 GR 190.01

A 95

THIETHANOLAMINE BORATE  
CA 53.4221ORGAN. UNKNOWNCAL D 0.4757 NO2925.0 04444444 T -0.  
C 6 H 12 B 1 N 1 O 3  
MW 156.99 MI 21.87 NA 0.0819 MD 4.49 EM 11.38 GR 4.26

TRIPTYCH-BUNDAZOLUINE  
CA 54.1310ORGAN. UNKNOWNCAL D 0.9757 NO2926.0 04444444 T -0.  
C 6 H 12 B 1 N 1 O 3  
MW 156.99 MI 21.87 NA 0.0819 MD 4.49 EM 11.38 GR 4.26

4,6,11-TRIOXA-1,5-AZABORABICYCLO(3,3,3)HEXDECANE  
CA 46.42005ORGAN. SOLIDCAL D 0.9757 NO2927.0 04444444 T 237.00  
C 6 H 12 B 1 N 1 O 3  
MW 156.99 MI 21.87 NA 0.0819 MD 4.49 EM 11.38 GR 4.26

BORANE-CYCLOPENTADIENYLIMETHYLPHOSPHINE  
CA 54.1921ORGAN. UNKNOWNCAL D 0.9809 NO2928.0 04444444 T -0.  
C 6 H 12 B 1 P 1  
MW 129.96 MI 19.16 NA 0.0880 MD 5.91 EM 12.17 GR 5.97

1,5-DICHLORO-1,5-DIBOROCYCLOOCTANE  
CA 54.12670ORGAN. LIQUIDANO D 1.1230 NO 392.0 04144411 T -0.  
C 6 H 12 B 1 CL 2  
MW 176.72 MI 21.25 NA 0.0811 MD 4.59 EM 400.38 GR 153.33

N-ETHYLENE BIS(AMINODIMETHYLBORINE)  
CA 49.12776ORGAN. LIQUIDEST D 0.8500 NO 744.0 04444444 T -0.  
C 6 H 12 B 2 N 2  
MW 133.82 MI 20.44 NA 0.0801 MD 4.39 EM 13.84 GR 5.30

2,2-PRIME OXYBIS(1,3,2-DIOXABOROLANE)  
CA 50.10649ORGAN. LIQUIDCAL D 1.0854 NO2929.0 04444444 T -0.  
C 6 H 12 B 2 O 5  
MW 185.80 MI 23.75 NA 0.0836 MD 4.22 EM 11.69 GR 4.11

2,2-PRIME OXYBIS(1,3,2-DIOXABOROLANE)  
CA 50.10649ORGAN. LIQUIDCAL D 1.0854 NO2930.0 04444444 T -0.  
C 6 H 12 B 2 O 5  
MW 185.80 MI 23.75 NA 0.0836 MD 4.22 EM 11.69 GR 4.11

DIMETHYLENE ETHYLENE DIBORATE  
CA 53.7673ORGAN. SOLIDEST D 0.9500 NO 793.0 04444444 T 163.00  
C 6 H 12 B 2 O 6  
MW 201.80 MI 24.74 NA 0.0702 MD 3.40 EM 11.69 GR 3.32

2,5,7,10-1,1,4,4-HEXA-1,6-DIBORABIS-CYCLO(4,4,4)TETRADECANE  
CA 51.1877ORGAN. LIQUIDEST D 1.0000 NO 770.0 04444444 T -0.  
C 6 H 12 B 2 O 6  
MW 201.80 MI 24.74 NA 0.0730 MD 3.58 EM 11.69 GR 3.49

A 94

BORON TRICHLORIDE-ISOBUTYL ACETATE  
CA 52.1956ORGAN. UNKNOWNEST D 1.2400 NO 834.0 04444444 T -0.  
C 6 H 12 B 1 CL 3 O 2  
MW 233.35 MI 23.41 NA 0.0749 MD 3.84 EM 593.64 GR 190.01

CHLORODI(2-CHLOROPROPYL)BORANE  
CA 51.9603ORGAN. UNKNOWNEST D 1.2400 NO 836.0 04444444 T -0.  
C 6 H 12 B 1 CL 3 O 2  
MW 233.35 MI 23.41 NA 0.0749 MD 3.84 EM 593.64 GR 190.01

CHLORODI(3-CHLOROPROPYL)BORANE  
CA 51.9476ORGAN. LIQUIDKNO D 1.2400 NO 837.0 04444444 T -0.  
C 6 H 12 B 1 CL 3 O 2  
MW 233.35 MI 23.41 NA 0.0749 MD 3.84 EM 593.64 GR 190.01

BORON TRICHLORIDE-ETHYL BUTYRATE  
CA 52.1956ORGAN. UNKNOWNEST D 1.2400 NO 809.0 04444444 T -0.  
C 6 H 12 B 1 CL 3 O 2  
MW 233.35 MI 23.41 NA 0.0749 MD 3.84 EM 593.64 GR 190.01

TRIS(1,3-CHLOROETHOXY)BORINE-B-CHLOROETHYL BORATE  
CA 44.13886ORGAN. LIQUIDKNO D 1.2390 NO 82.0 04440440 T -0.  
C 6 H 12 B 1 CL 3 O 2  
MW 249.35 MI 26.40 NA 0.0730 MD 3.29 EM 593.64 GR 177.67

DIFLUOROBUTYL BORANE-METHYL CYANIDE  
NACN 441481ORGAN. UNKNOWNEST D 1.0700 NO 804.0 04444444 T -0.  
C 6 H 12 B 1 F 2 N 1  
MW 146.99 MI 21.48 NA 0.0942 MD 5.26 EM 11.52 GR 5.05

BORON TRIFLUORIDE-HEXAMETHYLENETETRAKINE  
CA 54.6317ORGAN. UNKNOWNEST D 1.0342 NO2923.0 04444444 T -0.  
C 6 H 12 B 1 F 3 N 4  
MW 208.01 MI 25.98 NA 0.0778 MD 3.99 EM 14.83 GR 4.44

BORON TRIFLUORIDE-14-METHYL-3-PENTANONE  
CA 52.9993ORGAN. LIQUIDKNO D 1.0949 NO 451.0 04444444 T 17.00  
C 6 H 12 B 1 F 3 O 1  
MW 167.98 MI 22.69 NA 0.0891 MD 4.71 EM 10.52 GR 4.13

BORON TRIFLUORIDE-BUTYL ACETATE  
CA 47.1927ORGAN. LIQUIDCAL D 1.1781 NO 72.0 04440444 T 17.90  
C 6 H 12 B 1 F 3 O 2  
MW 183.98 MI 23.68 NA 0.0913 MD 4.63 EM 10.52 GR 4.06

2-FLUOROETHYL BORATE  
CA 45.6569ORGAN. LIQUIDCAL D 1.1005 NO2924.0 04414444 T -0.  
C 6 H 12 B 1 F 3 O 2  
MW 199.98 MI 24.87 NA 0.0818 MD 3.98 EM 10.52 GR 3.49

A 96

GLYCERYL PYRROPHOSPHATE POLYMER  
CA 52.10872ORGAN. POLYMERICAL D 1.5571 NO4133.0 04444444 T -0.  
C 6 H 12 B 1 N 2 U 7  
MW 217.80 MI 25.73 NA 0.1108 MD 5.17 EM 11.70 GR 5.04

2,4,6-TRIVINYLBORAZOLE  
CA 55.4425ORGAN. UNKNOWNCAL D 0.9718 NO2931.0 04444444 T -0.  
C 6 H 12 B 3 N 3  
MW 158.65 MI 22.98 NA 0.0845 MD 4.43 EM 16.31 GR 6.02

TRISODIUM-B-TRIMETHOXYBOROXY TRIFORMATE  
CA 53.4998ORGAN. SOLIDCAL D 1.1638 NO2932.0 04444444 T -0.  
C 6 H 12 B 3 Na 3 O 12  
MW 377.59 MI 35.28 NA 0.0768 MD 2.61 EM 24.78 GR 5.39

TRIMETHYLBORON TRIFLUORIDE-1-HEXAMETHYLENETETRAKINE  
GR 13.176ORGAN. SOLIDCAL D 1.1382 NO2933.0 04444444 T -0.  
C 6 H 12 B 4 F 3 N 4  
MW 240.47 MI 28.69 NA 0.0824 MD 3.42 EM 19.01 GR 5.42

PRIMARY CYCLOHEXYL PYRROPHOSPHATE  
CA 48.39431ORGAN. SOLIDCAL D 1.2170 NO2934.0 04414444 T -0.  
C 6 H 12 B 4 O 7  
MW 239.44 MI 27.67 NA 0.0847 MD 3.87 EM 14.48 GR 4.43

1-(HEXYL)-2-METHYLBORACYCLOHEXANE POLYMER  
CA 54.20846ORGAN. LIQUIDCAL D 1.0084 NO4134.0 04444411 T -0.  
C 6 H 13 B 1  
MW 95.99 MI 18.83 NA 0.1191 MD 8.23 EM 11.03 GR 6.98

DICHLOROHEXYLBORINE  
JACS 79.5182ORGAN. LIQUIDKNO D 0.9709 NO 184.0 04444444 T -0.  
C 6 H 13 B 1 CL 2  
MW 166.90 MI 21.23 NA 0.0744 MD 4.95 EM 399.92 GR 140.07

DIFLUOROHEXYLBORINE  
CA 50.11120ORGAN. LIQUIDKNO D 0.8591 NO 185.0 04114444 T -0.  
C 6 H 13 B 1 F 2  
MW 133.99 MI 21.41 NA 0.0827 MD 5.02 EM 11.18 GR 4.32

BORON TRIFLUORIDE-CYCLOHEXYLAMINE  
NACN 437219ORGAN. SOLIDEST D 1.5000 NO 939.0 04444444 T -0.  
C 6 H 13 B 1 F 3 N 1  
MW 167.00 MI 23.77 NA 0.1286 MD 7.03 EM 12.33 GR 6.87

BORON TRIFLUORIDE-1-METHYLPYRIPERIDINE  
CA 54.11032ORGAN. UNKNOWNEST D 1.9500 NO 940.0 04444444 T -0.  
C 6 H 13 B 1 F 3 N 1  
MW 167.00 MI 23.77 NA 0.1329 MD 7.27 EM 12.33 GR 6.39

A 97

ACRON TRIFLUORIDE-ETHYLPYRIDINE  
 U143 17. 4900ORGAN.UNKNOWEST D 1.5500 NO 941.0 04444444 T -0.  
 C 6 H 13 B 1 P 3 M 1  
 Mw 167.00 MI 23.77 MA 0.1329 MD 7.27 EM 12.33 GR 6.89

CYCLOHEXYLOXYBORANE  
 CA 92. 3670ORGAN. SOLIDEST D 0.9100 NO 942.0 04444444 T 119.50  
 C 6 H 13 B 1 O 2  
 Mw 127.99 MI 20.81 MA 0.0891 HU 5.97 EM 11.03 GR 4.72

2-N-BUTYL-1,3,2-DIOXABOROLANE  
 CA 49. 197250ORGAN. LIQUIDNO D 0.9141 NO 409.0 04444444 T -0.  
 C 6 H 13 B 1 O 2  
 Mw 127.99 MI 20.81 MA 0.0895 HU 5.99 EM 11.03 GR 4.79

1-ETHYLENEPROPYLENEBONATE  
 AD 8H. 1690ORGAN. LIQUIDCAL D 0.8642 NO4467.0 04444444 T -0.  
 C 6 H 13 B 1 O 2  
 Mw 127.99 MI 20.81 MA 0.0896 MD 5.29 EM 11.03 GR 4.49

BUTYL ETHYLENE THIOBORATE  
 CA 54. 17250ORGAN. LIQUIDCAL D 1.0600 NO2935.0 04444444 T -0.  
 C 6 H 13 B 1 O 2 S 1  
 Mw 160.05 MI 22.11 MA 0.0882 MD 5.19 EM 11.79 GR 4.70

2-HYDROXY-4,4,6-TRIMETHYL-1,3,2-DIOXABORINANE  
 CA 90. 150670ORGAN. SOLIDEST D 1.0100 NO2936.0 44044444 T 77.00  
 C 6 H 13 B 1 O 3  
 Mw 141.99 MI 21.80 MA 0.0921 HU 5.49 EM 11.03 GR 4.66

CYCLOHEXYLOXY-2-METHYL-2,4-PENTANEDIOL  
 CA 53. 1690ORGAN. UNKNOWEST D 1.0100 NO 943.0 04444444 T -0.  
 C 6 H 13 B 1 O 3  
 Mw 143.99 MI 21.80 MA 0.0921 HU 5.49 EM 11.03 GR 4.66

ETHYLENE ISOBUTYL BONATE  
 CA 52. 44720ORGAN. LIQUIDEST D 1.0100 NO 944.0 04444444 T -0.  
 C 6 H 13 B 1 O 3  
 Mw 143.99 MI 21.80 MA 0.0921 HU 5.49 EM 11.03 GR 4.66

SIL-BUTYL ETHYLENE BORATE  
 CA 42. 44720ORGAN. LIQUIDEST D 1.0100 NO 945.0 04444444 T -0.  
 C 6 H 13 B 1 O 3  
 Mw 143.99 MI 21.80 MA 0.0921 MD 5.49 EM 11.03 GR 4.66

BUTYL ETHYLENE BORATE  
 CA 52. 44720ORGAN. LIQUIDKNO D 1.0000 NO 947.0 04444444 T -0.  
 C 6 H 13 B 1 O 3  
 Mw 143.99 MI 21.80 MA 0.0917 HU 5.47 EM 11.03 GR 4.66

A 99

CHLORODI-N-PROPYLBORANE  
 CA 48. 6306ORGAN. LIQUIDKNO D 0.8480 NO 187.0 04144411 T 100.00  
 C 6 H 14 B 1 CL 1  
 Mw 132.65 MI 21.03 MA 0.0911 HU 5.40 EM 206.21 GR 79.52

CHLOROBIS(DIISOPROPYLAMINO)BORANE  
 ACS. 1320ORGAN. UNKNOWAL D 0.9088 NO2944.0 04444444 T -0.  
 C 6 H 14 B 1 CL 1 N 2  
 Mw 160.47 MI 23.17 MA 0.0943 MD 5.09 EM 208.37 GR 79.77

BUTYLCHLOROTHIOXYBORANE  
 CA 52. 3670ORGAN. LIQUIDEST D 0.9200 NO 948.0 04444444 T -0.  
 C 6 H 14 B 1 CL 1 O 1  
 Mw 148.45 MI 22.02 MA 0.0822 MD 5.23 EM 206.21 GR 76.97

BUTOXYCHLOROETHYLBORINE  
 CA 52. 67370ORGAN. LIQUIDKNO D 0.9030 NO 956.0 04444444 T -0.  
 C 6 H 14 B 1 CL 1 O 1  
 Mw 148.45 MI 22.02 MA 0.0807 MD 5.13 EM 206.21 GR 75.95

CHLORODIPROPYLBORINE  
 CA 50. 127180ORGAN. LIQUIDKNO D 0.9990 NO 188.0 04444444 T -0.  
 C 6 H 14 B 1 CL 1 N 2  
 Mw 164.45 MI 23.01 MA 0.0808 MD 4.92 EM 206.21 GR 72.43

(4-CHLOROBUTYL)BORONIC ACID  
 AD261. 1330ORGAN. LIQUIDCAL D 1.0220 NO4468.0 04444444 T -0.  
 C 6 H 14 B 1 CL 1 O 2  
 Mw 144.45 MI 23.01 MA 0.0861 MD 5.24 EM 206.21 GR 77.19

CYCLOHEXYLAMMONIUM TETRACHLOROBORATE  
 CA 53. 70690ORGAN. SOLIDCAL D 1.3044 NO2945.0 04444444 T 147.90  
 C 6 H 14 B 1 CL 4 N 1  
 Mw 252.83 MI 25.70 MA 0.0799 MD 4.35 EM 790.63 GR 245.69

ACRON TRIFLUORIDE-HEAVY ALCOHOL  
 CM 13. 1850ORGAN. LIQUIDEST D 1.0800 NO 848.0 04444444 T -41.00  
 C 6 H 14 B 1 F 3 O 1  
 Mw 170.00 MI 24.69 MA 0.0945 MD 5.36 EM 11.99 GR 4.59

1-METHYLPENIDIMETETRAFLUOROBORATE  
 CA 54. 110320ORGAN. SOLIDCAL D 1.0250 NO2946.0 04444444 T -0.  
 C 6 H 14 B 1 F 4 N 1  
 Mw 187.01 MI 26.06 MA 0.0840 MD 4.62 EM 13.14 GR 4.34

LITHIUM TRIMETHYL-2-METHYLVINYLBORINE  
 CA 52. 44740ORGAN. UNKNOWAL D 0.7868 NO2947.0 04444444 T -0.  
 C 6 H 14 B 1 Li 1  
 Mw 103.93 MI 26.84 MA 0.0902 MD 4.06 EM 11.84 GR 5.12

A 98

2-BUTOXY-1,3,2-DIOXABOROLANS  
 CA 49. 187250ORGAN. LIQUIDKNO D 0.9976 NO 186.0 04444444 T -0.  
 C 6 H 13 B 1 O 3  
 Mw 143.99 MI 21.80 MA 0.0910 MD 5.43 EM 11.03 GR 4.60

tert-BUTYL ETHYLENE BORATE  
 CA 52. 44720ORGAN. LIQUIDKNO D 1.0220 NO 609.0 04444444 T -0.  
 C 6 H 13 B 1 O 3  
 Mw 143.99 MI 21.80 MA 0.0932 MD 5.56 EM 11.03 GR 4.72

FRUCTOSE-BORON COMPLEX  
 CA 53. 29190ORGAN. UNKNOWAL D 1.1606 NO2937.0 04444444 T -0.  
 C 6 H 13 B 1 O 8  
 Mw 223.99 MI 26.75 MA 0.0835 MD 4.06 EM 11.04 GR 3.45

MANNOSE-BORON COMPLEX  
 CA 53. 29190ORGAN. UNKNOWAL D 1.1606 NO2938.0 04444444 T -0.  
 C 6 H 13 B 1 O 8  
 Mw 223.99 MI 26.75 MA 0.0835 MD 4.06 EM 11.04 GR 3.45

D-GLUCOSE-BORON COMPLEX  
 CA 53. 29190ORGAN. UNKNOWAL D 1.1606 NO2939.0 04444444 T -0.  
 C 6 H 13 B 1 O 8  
 Mw 223.99 MI 26.75 MA 0.0835 MD 4.06 EM 11.04 GR 3.45

GALACTOSE-BORON COMPLEX  
 CA 53. 29190ORGAN. UNKNOWAL D 1.1606 NO2940.0 04444444 T -0.  
 C 6 H 13 B 1 O 8  
 Mw 223.99 MI 26.75 MA 0.0835 MD 4.06 EM 11.04 GR 3.45

DIMETHYLENE BUTYLTHIOBORONATE  
 CA 54. 141040ORGAN. LIQUIDCAL D 1.1081 NO2941.0 04444444 T -0.  
 C 6 H 13 B 1 S 2  
 Mw 160.11 MI 21.43 MA 0.0893 MD 5.42 EM 12.95 GR 5.23

DIMETHYLENE(ISO-BUTYL)THIOBORONATE  
 CA 54. 141040ORGAN. LIQUIDCAL D 1.1081 NO2942.0 04444444 T -0.  
 C 6 H 13 B 1 S 2  
 Mw 160.11 MI 21.43 MA 0.0893 MD 5.42 EM 12.95 GR 5.23

BUTOXYCHLORODIISOPROPYLOXYETHANOLBORON DICHLORIDE  
 CA 54. 17250ORGAN. UNKNOWAL D 1.2888 NO2943.0 04444444 T -0.  
 C 6 H 13 B 2 CL 3 O 3  
 Mw 261.18 MI 26.37 MA 0.0784 MD 3.86 EM 395.76 GR 177.07

CHLORODI-ISO-PROPYLBORANE  
 CA 54. 10060ORGAN. UNKNOWEST D 0.9000 NO1802.0 04444444 T -0.  
 C 6 H 14 B 1 CL 1  
 Mw 132.65 MI 21.03 MA 0.0881 HU 5.73 EM 206.21 GR 84.40

A 100

TRIMER AND TETRAMER OF DIMETHYLAMINO TETRAMETHYLENE BORONIC AMIDE  
 AD261. 1330ORGAN. LIQUIDCAL D 1.0842 NO4478.0 04404444 T -0.  
 C 6 H 14 B 1 N 1 O 1  
 Mw 177.01 MI 21.89 MA 0.1126 MD 7.20 EM 12.84 GR 6.60

4-DIMETHYLAMINO-1-BUTANEBORONIC ACID POLYMER  
 AD230. 2480ORGAN. POLYMER D 1.1927 NO4245.0 04444444 T -0.  
 C 6 H 14 B 1 N 1 O 2  
 Mw 143.01 MI 27.08 MA 0.1111 MD 6.80 EM 12.84 GR 6.24

2-DIETHYLAMINO-1,3,2-DIOXABOROLANE  
 CA 54. 109130ORGAN. UNKNOWEST D 0.9000 NO 844.0 04444444 T -0.  
 C 6 H 14 B 1 N 1 O 2  
 Mw 143.01 MI 22.18 MA 0.0867 MD 5.31 EM 12.84 GR 4.87

1,1-DIETHYL-2-ETHYL-1,3,2-DIOXABOROLANE  
 CA 51. 69320ORGAN. SOLIDEST D 0.9000 NO 850.0 04444444 T 147.00  
 C 6 H 14 B 1 N 1 O 2  
 Mw 143.01 MI 22.88 MA 0.0867 MD 5.31 EM 12.84 GR 4.87

ETHYLENE DIETHYLAMINOBORONATE  
 CA 54. 17250ORGAN. LIQUIDEST D 0.9000 NO1803.0 04444444 T -0.  
 C 6 H 14 B 1 N 1 O 2  
 Mw 143.01 MI 22.88 MA 0.0867 MD 5.31 EM 12.84 GR 4.87

MUNDSTEN OF BORIC ACID WITH PENTAHYDROIC ALCOHOL  
 CM 13. 2300ORGAN. LIQUIDCAL D 1.1193 NO2948.0 04444444 T -0.  
 C 6 H 14 B 1 O 8  
 Mw 275.00 MI 27.75 MA 0.0831 MD 4.19 EM 11.77 GR 3.43

POLYMERIC TETRAMETHYLENEPHOSPHINODIETHYLBORINE  
 CA 54. 154090ORGAN. POLYMER D 1.1737 NO4136.0 04444444 T -0.  
 C 6 H 14 B 1 P 1  
 Mw 127.97 MI 21.16 MA 0.1169 HU 7.73 EM 13.59 GR 7.50

POLYMERIC HEXYLPHOSPHINOBORINE  
 CA 54. 154090ORGAN. POLYMER D 1.1737 NO4136.0 04444444 T -0.  
 C 6 H 14 B 1 P 1  
 Mw 127.97 MI 21.16 MA 0.1169 HU 7.73 EM 13.59 GR 7.50

DISODIUMETHYLBORYLETHYLENE  
 NACN. 414240ORGAN. LIQUIDCAL D 0.8093 NO2949.0 04444444 T -0.  
 C 6 H 14 B 2  
 Mw 107.82 MI 20.80 MA 0.0940 MD 6.33 EM 13.15 GR 5.45

1,3-BORON TRIFLUORIDE-1-ETHYL ETHYLENE SULFIDE  
 CA 45. 40070ORGAN. UNKNOWAL D 1.3148 NO2950.0 04444444 T -0.  
 C 6 H 14 B 2 F 2 S 2  
 Mw 285.94 MI 31.14 MA 0.0862 MD 3.88 EM 15.11 GR 4.19

A 101

CARBON MONOXIDE-1,3-DIMETHYLBORANE DIMER  
NACN 22990ORGAN.LIQUIDEST D 0.9000 NO 851.0 04444444 T -0.  
C 6 H 15 B 2 0 2  
MW 139.82 MI 22.78 MA 0.0883 MD 5.43 EM 13.16 GR 5.10

2-ALLYL-4,6-DICHLORO-1,3,5-TRIMETHYLBORAZINE  
CA 53. 3240ORGAN.UNKNOWCAL D 1.1791 NO2981.0 04444444 T -0.  
C 6 H 14 B 3 CL 2 N 3  
MW 231.98 MI 27.38 MA 0.0840 MD 4.29 EM 406.67 GR 124.73

BUTYLDIMETHYLBORANE  
NACN 49881ORGAN.UNKNOWEST D 0.6900 NO 852.0 04444444 T -0.  
C 6 H 15 B 1  
MW 98.01 MI 20.83 MA 0.0883 MD 6.36 EM 12.90 GR 5.30

TRIETHYLBORINE  
CA 53. 2180ORGAN.LIQUIDKNO D 0.6900 NO 189.0 04144411 T -92.90  
C 6 H 15 B 1  
MW 98.01 MI 20.83 MA 0.0883 MD 6.36 EM 12.90 GR 5.30

NITROSYL TRIETHYLBORONBORATE  
CA 54. 11790ORGAN.LIQUIDCAL D 0.9542 NO2952.0 04444444 T -37.00  
C 6 H 15 B 1 CL 1 N 1 O 1  
MW 163.47 MI 24.09 MA 0.0867 MD 5.27 EM 208.02 GR 73.14

MONOM TRICHLORIDE-TRIETHYLAMINE  
CA 50. 1975ORGAN.LIQUIDCAL D 1.1372 NO2953.0 04444444 T 84.20  
C 6 H 15 B 1 CL 3 N 1  
MW 218.38 MI 25.50 MA 0.0814 MD 4.79 EM 594.91 GR 190.92

TRIALKYL PHOSPHITE BORINE  
CA 55. 3410ORGAN.UNKNOWCAL D 1.3252 NO2954.0 04444444 T -0.  
C 6 H 15 B 1 CL 3 O 3 P 1  
MW 283.35 MI 28.73 MA 0.0809 MD 4.23 EM 597.66 GR 168.36

BORON TRICHLORIDE-TRIETHYLPHOSPHATE  
AD252. 0940ORGAN.UNKNOWCAL D 1.1644 NO4265.0 04444444 T -0.  
C 6 H 15 B 1 CL 3 O 4 P 1  
MW 290.35 MI 29.72 MA 0.0896 MD 3.51 EM 597.66 GR 140.02

MONOM TRIFLUORIDE-DIPROPYLAMINE  
NACN 37219ORGAN. SOLIDEST D 1.4500 NO 835.0 04444444 T -0.  
C 6 H 15 B 1 F 3 N 1  
MW 169.01 MI 25.77 MA 0.1332 MD 7.75 EM 13.80 GR 7.13

BORON TRIFLUORIDE-TRIETHYLAMINE  
CA 54. 2500ORGAN. SOLIDEST D 1.4500 NO 837.0 04444444 T 29.50  
C 6 H 15 B 1 F 3 N 1  
MW 169.01 MI 25.77 MA 0.1332 MD 7.75 EM 13.80 GR 7.13

A 103

N-BUTYLDIMETHOXYBORANE  
NACA 35321ORGAN.LIQUIDKNO D 0.8306 NO 141.0 04444444 T -0.  
C 6 H 15 B 1 O 2  
MW 130.01 MI 22.81 MA 0.0878 MD 5.77 EM 12.90 GR 4.01

ETHYL BORATE  
CA 53. 2290ORGAN.LIQUIDKNO D 0.8700 NO 192.0 04444444 T -84.80  
C 6 H 15 B 1 O 3  
MW 146.01 MI 23.80 MA 0.0854 MD 5.38 EM 12.90 GR 4.49

2-MERCAPTOETHYL BORATE  
CA 51. 20330ORGAN.UNKNOWCAL D 1.2207 NO2956.0 04444444 T -0.  
C 6 H 15 B 1 O 3 S 1  
MW 242.19 MI 27.70 MA 0.0841 MD 4.55 EM 14.78 GR 4.49

2-HYDROXYETHYL BORATE  
CA 51. 11990ORGAN.UNKNOWCAL D 1.0141 NO2957.0 04444444 T -0.  
C 6 H 15 B 1 O 4  
MW 194.01 MI 26.77 MA 0.0843 MD 4.72 EM 12.90 GR 3.94

DIPROPYLTHIOBORONIC ACID  
CA 54. 1280ORGAN.LIQUIDKNO D 0.8093 NO 393.0 04444444 T -0.  
C 6 H 15 B 1 S 1  
MW 130.07 MI 22.13 MA 0.0829 MD 5.62 EM 13.25 GR 4.97

BIS(DIPROPYLTHIOBORONIC ACID)  
CA 54. 8600ORGAN.LIQUIDKNO D 0.9809 NO 394.0 04444444 T -0.  
C 6 H 15 B 1 S 2  
MW 162.13 MI 23.43 MA 0.0854 MD 5.47 EM 14.01 GR 5.11

ETHYL THIOBORATE  
CA 49. 15590ORGAN.UNKNOWEST D 0.9500 NO 863.0 04444444 T -0.  
C 6 H 15 B 1 S 3  
MW 194.19 MI 24.73 MA 0.0729 MD 4.42 EM 14.77 GR 4.35

N-TRIS(2-ETHYLAMINE)-1-BORATE  
CA 47. 21250ORGAN.UNKNOWCAL D 1.0637 NO2958.0 04444404 T -0.  
C 6 H 15 B 2 N 1 O 4  
MW 218.83 MI 28.81 MA 0.0844 MD 4.39 EM 14.98 GR 4.38

2,4,6-TRICHLORO-1,3,5-TRIMETHYLBORAZINE  
CA 53. 2010ORGAN. SOLIDICAL D 1.2320 NO2959.0 04444444 T 56.00  
C 6 H 15 B 3 CL 3 N 3  
MW 268.94 MI 29.58 MA 0.0819 MD 4.15 EM 601.85 GR 164.63

TRIETHYLBORONIN  
JACS 79. 5140ORGAN.LIQUIDKNO D 0.8959 NO 193.0 04444444 T -0.  
C 6 H 15 B 3 O 3  
MW 167.65 MI 25.74 MA 0.0829 MD 4.83 EM 15.28 GR 4.92

A 102

BORON TRIFLUORIDE BUTYLDIMETHYLAMINE  
CA 50. 19750ORGAN.UNKNOWEST D 1.4500 NO 855.0 04444444 T -0.  
C 6 H 15 B 1 F 3 N 1  
MW 169.01 MI 25.77 MA 0.1332 MD 7.75 EM 13.80 GR 7.13

TRIFLYOXONUM TETRAFLUOROBORATE  
CA 50. 77360ORGAN. SOLIDICAL D 1.0100 NO2959.0 04444444 T 92.00  
C 6 H 15 B 1 F 4 O 1  
MW 190.01 MI 26.98 MA 0.0864 MD 4.80 EM 12.79 GR 4.10

TRIS(2-ETHYLAMINO)BORANE  
CA 51. 94740ORGAN.LIQUIDKNO D 0.8260 NO 190.0 04444444 T -0.  
C 6 H 15 B 1 N 3  
MW 140.03 MI 24.04 MA 0.0854 MD 5.33 EM 15.73 GR 5.59

DIPROPYLBORONIC ACID  
CA 53. 17880ORGAN.LIQUIDEST D 0.7800 NO 856.0 04444444 T -0.  
C 6 H 15 B 1 O 1  
MW 114.01 MI 21.82 MA 0.0899 MD 6.18 EM 12.90 GR 5.15

DIPROPYLBORONIC ACID  
CA 53. 17880ORGAN.LIQUIDEST D 0.7900 NO 857.0 04444444 T -0.  
C 6 H 15 B 1 O 1  
MW 114.01 MI 21.82 MA 0.0911 MD 6.26 EM 12.90 GR 5.22

DIPROPYLBORONIC ACID  
CA 53. 91490ORGAN.UNKNOWEST D 0.8300 NO 858.0 04144441 T -0.  
C 6 H 15 B 1 O 2  
MW 130.01 MI 22.81 MA 0.0877 MD 5.77 EM 12.90 GR 4.81

ETHYLDIMETHOXYBORANE  
CA 53. 2240ORGAN.LIQUIDEST D 0.8300 NO 859.0 04444444 T -0.  
C 6 H 15 B 1 O 2  
MW 130.01 MI 22.81 MA 0.0877 MD 5.77 EM 12.90 GR 4.81

HEXYLBORONIC ACID  
CA 54. 2980ORGAN. SOLIDEST D 0.9000 NO 860.0 04444444 T 93.00  
C 6 H 15 B 1 O 2  
MW 130.01 MI 22.81 MA 0.0951 MD 6.29 EM 12.90 GR 5.21

DIPROPYLBORANE  
CA 47. 96850ORGAN.UNKNOWEST D 0.8300 NO 861.0 04444444 T -0.  
C 6 H 15 B 1 O 2  
MW 130.01 MI 22.81 MA 0.0877 MD 5.77 EM 12.90 GR 4.81

DI-TERT-BUTOXYBORINE  
NACN 52. 2590ORGAN.LIQUIDEST D 0.8300 NO 862.0 04444444 T -45.00  
C 6 H 15 B 1 O 2  
MW 130.01 MI 22.81 MA 0.0877 MD 5.77 EM 12.90 GR 4.81

A 104

TRIFLYOXONUM TETRAFLUOROBORATE  
CA 50. 77360ORGAN. SOLIDICAL D 1.0100 NO2959.0 04444444 T 92.00  
C 6 H 15 B 1 F 4 O 1  
MW 190.01 MI 26.98 MA 0.0864 MD 4.80 EM 12.79 GR 4.10

TRIFLYOXONUM TETRAFLUOROBORATE  
CA 50. 77360ORGAN. SOLIDICAL D 1.0100 NO2959.0 04444444 T 92.00  
C 6 H 15 B 1 F 4 O 1  
MW 190.01 MI 26.98 MA 0.0864 MD 4.80 EM 12.79 GR 4.10

CHLOROBORINE-BIS(2-METHOXYETHYL)ETHER  
CA 53. 78510ORGAN.UNKNOWCAL D 1.0371 NO2963.0 04444444 T -0.  
C 6 H 15 B 1 CL 1 O 3  
MW 182.47 MI 26.00 MA 0.0890 MD 5.48 EM 207.88 GR 71.10

TRIMETHYLAMINE-DICHLOROBORANE  
CA 54. 162490ORGAN.LIQUIDCAL D 1.0582 NO2964.0 04444444 T -0.  
C 6 H 15 B 2 CL 2 N 1  
MW 183.94 MI 25.30 MA 0.0877 MD 5.94 EM 403.20 GR 139.73

TRIMETHYLAMMONIUM ETHANOLBORATE  
CA 54. 171320ORGAN. SOLIDICAL D 1.28 NO2961.0 04444444 T -0.  
C 6 H 15 B 2 CL 4 N 1  
MW 254.84 MI 27.7 MA 0.0838 MD 4.84 EM 752.09 GR 230.6

BORON TRIFLUORIDE-BIS(DIPROPANOL)  
CA 54. 4350ORGAN.UNKNOWEST D 1.1000 NO 864.0 04444444 T -0.  
C 6 H 15 B 1 F 3 O 2  
MW 188.01 MI 27.68 MA 0.0975 MD 5.64 EM 13.45 GR 4.74

BORON TRIFLUORIDE-BIS(DIPROPYL ALCOHOL)  
CA 53. 18890ORGAN.UNKNOWEST D 1.1000 NO 865.0 04444444 T -0.  
C 6 H 15 B 1 F 3 O 2  
MW 188.01 MI 27.68 MA 0.0975 MD 5.64 EM 13.45 GR 4.74

BORON TRIFLUORIDE-P-DIOXANE-BIS(ETHANOL)  
CA 54. 49690ORGAN. SOLIDICAL D 1.0938 NO2965.0 04444444 T 137.00  
C 6 H 15 B 1 F 3 O 4  
MW 220.01 MI 29.66 MA 0.0888 MD 4.79 EM 13.46 GR 4.03

TRIMETHYLAMMONIUM TETRAFLUOROBORATE  
CA 54. 110320ORGAN. SOLIDICAL D 1.0408 NO2966.0 04444444 T -0.  
C 6 H 15 B 1 F 4 N 1  
MW 212.01 MI 29.27 MA 0.0865 MD 4.73 EM 18.30 GR 5.47

TRIMETHYLBORINE-TRIMETHYLENEMINE  
CA 44. 87150ORGAN.LIQUIDEST D 0.8000 NO 866.0 04444444 T -7.50  
C 6 H 15 B 1 N 1  
MW 113.02 MI 22.90 MA 0.0976 MD 6.82 EM 14.31 GR 6.10

A 105

DIETHYLAMINO DIETHYLBORANE  
CA 13. 2400ORGAN.LIQUIDEST D 0.8000 NO 868.0 04444444 T -0.  
C 6 H 16 B 1 N 1  
MW 113.02 MI 22.90 MA 0.0976 HD 6.82 EM 14.31 GR 6.10

DIETHYLAMINO DIETHYLBORANE  
CA 13. 2400ORGAN.LIQUIDEST D 0.8000 NO 867.0 04444444 T -0.  
C 6 H 16 B 1 N 1  
MW 113.02 MI 22.90 MA 0.0976 HD 6.82 EM 14.31 GR 6.10

1,4-DIETHYLAMINO DIETHYLBORONIC ACID  
AU261. 2310ORGAN.UNKNOWCAL D 0.7817 NO4449.0 24444444 T -0.  
C 6 H 16 B 1 N 1 O 2  
MW 145.02 MI 24.88 MA 0.0808 HD 5.19 EM 14.31 GR 4.65

SODIUM TRICHLOROBORATE  
CA 53.23100ORGAN.LIQUIDEAL D 0.9807 NO2967.0 04144411 T -0.  
C 6 H 16 B 1 NA 1  
MW 122.00 MI 23.04 MA 0.1093 HD 7.59 EM 17.12 GR 8.12

SODIUM TRICHLOROBORATE  
CA 49.121670ORGAN.UNKNOWCAL D 1.1505 NO2988.0 04444444 T -0.  
C 6 H 16 B 1 NA 1 O 3  
MW 170.00 MI 26.01 MA 0.1060 HD 6.52 EM 17.13 GR 6.98

DIPROPYLBORINOPHOSPHINE  
AU254. 0440ORGAN.UNKNOWCAL D 0.8813 NO4266.0 04444444 T -0.  
C 6 H 16 B 1 P 1  
MW 129.99 MI 23.10 MA 0.0946 HD 6.53 EM 15.03 GR 6.13

HEXANE-1,2-DIETHYLETHYLPHOSPHINE  
CA 54. 54650ORGAN.UNKNOWCAL D 0.8813 NO2969.0 04444444 T -0.  
C 6 H 16 B 1 P 1  
MW 129.99 MI 23.10 MA 0.0946 HD 6.53 EM 15.03 GR 6.13

TETRAETHYLDIBORANE-ETHYLENE  
CA 54.223240ORGAN.LIQUIDEAL D 0.7772 NO2970.0 04444444 T -0.  
C 6 H 16 B 2  
MW 109.83 MI 22.80 MA 0.0972 HD 6.82 EM 14.02 GR 6.23

1,2-BIS(DIETHYLTHIOXY)DIETHYLENE  
CA 49.122740ORGAN.LIQUIDEAL D 0.7772 NO2982.0 04444444 T 114.90  
C 6 H 16 B 2  
MW 107.83 MI 22.80 MA 0.0972 HD 6.82 EM 14.02 GR 6.23

MISINORON TRIFLUORIDE-PROPYLENEDIAMINE  
CA 49. 45170ORGAN. SOLIDAND D 1.2340 NO 194.0 04444440 T 180.00  
C 6 H 16 B 2 F 6 N 2  
MW 251.85 MI 32.08 MA 0.0964 HD 4.72 EM 17.22 GR 5.08

A 107

TRISFLUORODIETHYLSILYL)BORANE  
CA 94. 79930ORGAN.UNKNOWCAL D 1.0797 NO 209.0 04444444 T -0.  
C 6 H 16 B 1 F 3 U 351 3  
MW 290.30 MI 34.45 MA 0.0772 HD 6.03 EM 17.27 GR 3.87

LITHIUM BOROXYDRIDE-DIISOPROPYL ETHER  
CA 52.119690ORGAN.UNKNOWCAL D 0.8820 NO2972.0 04444444 T -0.  
C 6 H 16 B 1 Li 1 O 1  
MW 123.97 MI 25.83 MA 0.1107 HD 7.71 EM 14.78 GR 6.33

BORANE-TRIMETHYLAMINE  
CA 52.10860ORGAN.LIQUIDKNO D 0.7850 NO 462.0 04444444 T -4.00  
C 6 H 16 B 1 N 1  
MW 115.04 MI 24.90 MA 0.1021 HD 7.46 EM 15.78 GR 6.48

TRIMETHYLBORINE-TRIMETHYLAMINE  
CA 13. 2380ORGAN. SOLIDEST D 0.7800 NO 874.0 04444441 T 128.00  
C 6 H 16 B 1 N 1  
MW 115.04 MI 24.90 MA 0.1017 HD 7.35 EM 15.78 GR 6.44

BUTYLDIETHYLBORANE-AMMONIA  
NACH. 498810ORGAN.LIQUIDEST D 0.7800 NO 875.0 04444444 T -0.  
C 6 H 16 B 1 N 1  
MW 115.04 MI 24.90 MA 0.1017 HD 7.35 EM 15.78 GR 6.44

TRIETHYLBORINE-AMMONIUM  
CA 13. 2380ORGAN.LIQUIDEST D 0.7800 NO 876.0 04444444 T -10.00  
C 6 H 16 B 1 N 1  
MW 115.04 MI 24.90 MA 0.1017 HD 7.35 EM 15.78 GR 6.44

TRIMETHYLBORANE-PROPYLDIAMINE  
CA 45. 74200ORGAN.LIQUIDEST D 0.7800 NO 877.0 04444444 T -5.80  
C 6 H 16 B 1 N 1  
MW 115.04 MI 24.90 MA 0.1017 HD 7.35 EM 15.78 GR 6.44

TRIMETHYLBORANE-ISOPROPYLDIAMINE  
CA 48. 9600ORGAN.LIQUIDEST D 0.7800 NO 878.0 04444444 T 8.70  
C 6 H 16 B 1 N 1  
MW 115.04 MI 24.90 MA 0.1017 HD 7.35 EM 15.78 GR 6.44

ISOPROPYLBORANE-TRIMETHYLAMINE  
CA 54.152240ORGAN.UNKNOWEST D 0.8000 NO1806.0 04444444 T -0.  
C 6 H 16 B 1 N 1  
MW 115.04 MI 24.90 MA 0.1043 HD 7.54 EM 15.78 GR 6.61

PROPYLBORANE-TRIMETHYLAMINE  
CA 54.152240ORGAN.UNKNOWEST D 0.8000 NO1807.0 04444444 T -0.  
C 6 H 16 B 1 N 1  
MW 115.04 MI 24.90 MA 0.1043 HD 7.54 EM 15.78 GR 6.61

A 106

ACETIDIBORANE DIMER  
NACH. 141305ORGAN. SOLIDEST D 0.8500 NO 869.0 04444444 T 52.00  
C 6 H 16 B 2 N 2  
MW 137.85 MI 24.94 MA 0.0926 HD 5.94 EM 16.78 GR 6.23

POLYMERIC TETRAKIS(METHYLDIETHYLBORANE-ETHYLENE  
CA 54.129800ORGAN.POLYMERICAL D 1.2029 NO4137.0 04444444 T -0.  
C 6 H 16 B 2 N 4  
MW 165.87 MI 27.08 MA 0.1183 HD 6.99 EM 18.94 GR 8.27

1,2-BIS(DIETHYLTHIOXY)DIETHYLENE  
CA 49.122740ORGAN.LIQUIDEST D 0.9500 NO 870.0 04444444 T -0.  
C 6 H 16 B 2 O 4  
MW 173.83 MI 26.76 MA 0.0881 HD 5.27 EM 14.63 GR 4.81

N-TRIETHYL-B-MONODICHLOROBORAZANE  
CA 55. 43440ORGAN. SOLIDICAL D 0.8847 NO2971.0 04444444 T 39.00  
C 6 H 17 B 1 Cl 1 N 1  
MW 149.49 MI 25.10 MA 0.0899 HD 6.06 EM 20.49 GR 74.68

CHLORODIETHYLBORANE-DIETHYLAMINE  
CA 13. 2520ORGAN.UNKNOWEST D 0.9000 NO 871.0 04444444 T -0.  
C 6 H 17 B 1 Cl 1 N 1  
MW 149.49 MI 25.10 MA 0.0910 HD 6.16 EM 20.49 GR 75.97

CHLORODIETHYLBORANE-DIETHYLAMINE  
CA 13. 2520ORGAN.UNKNOWEST D 0.9000 NO 872.0 04444444 T -0.  
C 6 H 17 B 1 Cl 1 N 1  
MW 149.49 MI 25.10 MA 0.0910 HD 6.16 EM 20.49 GR 75.97

BORANE-DIISOPROPYLBORANE  
CA 54.152220ORGAN.UNKNOWEST D 0.8838 NO1804.0 04444444 T 23.00  
C 6 H 17 B 1 N 1  
MW 114.024 MI 23.90 MA 0.1116 HD 7.94 EM 15.04 GR 7.02

BORANE-DIPROPYLBORANE  
CA 54.152220ORGAN.UNKNOWEST D 0.8838 NO1805.0 04444444 T 30.00  
C 6 H 17 B 1 N 1  
MW 114.024 MI 23.90 MA 0.1116 HD 7.94 EM 15.04 GR 7.02

BORIC ACID-MANNITOL  
CA 52. 34800ORGAN.UNKNOWEST D 1.3000 NO 873.0 04444444 T -0.  
C 6 H 17 B 1 O 9  
MW 244.02 MI 31.74 MA 0.1019 HD 5.46 EM 13.98 GR 4.49

TRISCHLORODIETHYLSILANOLIBORATE  
CA 52.117340ORGAN.LIQUIDKNO D 1.0966 NO 461.0 04444444 T -0.  
C 6 H 16 B 1 Cl 3 O 351 3  
MW 339.67 MI 34.18 MA 0.0865 HD 3.50 EM 600.38 GR 116.75

A 108

BORANE-DIETHYLAMINE  
CA 54.152220ORGAN.UNKNOWEST D 0.8000 NO1808.0 04444444 T -0.  
C 6 H 16 B 1 N 1  
MW 115.04 MI 24.90 MA 0.1043 HD 7.54 EM 15.78 GR 6.61

TRIMETHYL BORATE-TRIMETHYLAMINE  
CA 48. 54730ORGAN.LIQUIDEAL D 0.8611 NO2973.0 04444444 T -50.00  
C 6 H 16 B 1 N 1 O 351 3  
MW 163.04 MI 27.87 MA 0.0887 HD 5.73 EM 15.78 GR 5.02

TRIS(DIETHYLAMINO)BORINE  
CA 53.141140ORGAN.LIQUIDKNO D 0.8330 NO 493.0 04444444 T -0.  
C 6 H 16 B 1 N 3  
MW 143.05 MI 27.04 MA 0.0948 HD 6.31 EM 17.93 GR 6.29

TRIS(DIETHYLAMINO)BORINE  
CA 13. 2410ORGAN.LIQUIDEST D 0.8300 NO 879.0 04444444 T 16.00  
C 6 H 16 B 1 N 3  
MW 143.05 MI 27.04 MA 0.0948 HD 6.29 EM 17.93 GR 6.27

TRIETHYL PHOSPHITE BORINE  
CA 55. 34160ORGAN.LIQUIDEAL D 0.9980 NO2974.0 04444444 T -0.  
C 6 H 16 B 1 O 3 P 1  
MW 180.00 MI 28.13 MA 0.0902 HD 5.77 EM 16.52 GR 5.30

BORANE-TRIMETHYLPHOSPHINE  
CA 47. 62990ORGAN. SOLIDICAL D 0.8113 NO2975.0 04444441 T 46.00  
C 6 H 16 B 1 P 1  
MW 132.00 MI 25.16 MA 0.0931 HD 6.66 EM 16.52 GR 6.12

BORANE-DIISOPROPYLBORANE  
CA 54. 54650ORGAN.UNKNOWCAL D 0.8113 NO2976.0 04444444 T -0.  
C 6 H 16 B 1 P 1  
MW 132.00 MI 25.16 MA 0.0931 HD 6.66 EM 16.52 GR 6.12

BORANE-DIPROPYLBORANE  
CA 54. 54650ORGAN.UNKNOWCAL D 0.8113 NO2977.0 04444444 T -0.  
C 6 H 16 B 1 P 1  
MW 132.00 MI 25.16 MA 0.0931 HD 6.66 EM 16.52 GR 6.12

TRIETHYLDIBORANE  
CA 54.243980ORGAN.UNKNOWCAL D 0.7146 NO2978.0 04444444 T -0.  
C 6 H 16 B 2  
MW 111.85 MI 24.80 MA 0.0954 HD 6.93 EM 16.09 GR 6.19

DIPROPYLBORANE  
CA 52.194510ORGAN.UNKNOWCAL D 0.7146 NO2979.0 04444444 T -0.  
C 6 H 16 B 2  
MW 111.85 MI 24.80 MA 0.0954 HD 6.93 EM 16.09 GR 6.19

A 109

DIBORON TETRACHLORIDE-2-TRIMETHYL NITRIDE  
 GR 13. 2230ORGAN. SOLIDICAL D 1.2380 NO2980.0 04444444 T 288.00  
 C 6 H 18 B 3 N 3  
 Mw 281.69 MI 31.74 MA 0.0840 MD 4.76 EM 796.03 GR 210.72

BIS(DIMETHYLAMINO)BIS(DIMETHYLPHOSPHINE)  
 CA 54.2440ORGAN. UNKNOWCAL D 1.4048 NO2981.0 04444444 T -0.  
 C 6 H 18 B 3 N 3  
 Mw 315.63 MI 32.26 MA 0.0865 MD 4.83 EM 797.52 GR 213.80

HEXAMETHYLENEDIAMMONIUM BIS(TETRAFLUOROBORATE)  
 ZNAT 12. 2680ORGAN. UNKNOWCAL D 1.1412 NO2982.0 04444444 T -0.  
 C 6 H 18 B 3 N 3  
 Mw 291.87 MI 37.26 MA 0.0870 MD 4.24 EM 18.84 GR 4.46

N,N PHINE-BIS(DIMETHYLBOXYLIETHYLENE)ANILINE  
 CA 49.12270ORGAN. LIQUIDEST D 0.8900 NO 880.0 04444444 T -0.  
 C 6 H 18 B 3 N 3  
 Mw 139.87 MI 26.96 MA 0.0986 MD 6.59 EM 18.25 GR 6.68

2,2,4,4,6,6-HEXACHLOR-1,1,3,3,5,5-HEXAMETHYLBORPHOSPHANE  
 WATR 57. 1260ORGAN. SOLIDICAL D 1.6362 NO2983.0 04444414 T 377.50  
 C 6 H 18 B 3 N 3  
 Mw 420.34 MI 36.96 MA 0.0830 MD 4.16 EM 189.63 GR 273.72

2,2,4,4,6,6-HEXACHLOR-1,1,3,3,5,5-HEXAMETHYLBORPHOSPHANE  
 WATR 57. 1260ORGAN. SOLIDICAL D 1.6362 NO2984.0 04444414 T 128.00  
 C 6 H 18 B 3 N 3  
 Mw 329.59 MI 37.50 MA 0.0920 MD 4.41 EM 73.39 GR 5.74

TRIMETHOXYBORANE-TRIMETHYLAMINE  
 CA 41.4810ORGAN. UNKNOWCAL D 0.9453 NO2985.0 04444444 T 87.00  
 C 6 H 18 B 3 N 3  
 Mw 184.68 MI 29.81 MA 0.0919 MD 5.55 EM 18.56 GR 5.72

TRIMETHOXYBOROXIN-TRIMETHYLAMINE  
 NACH 41.4810ORGAN. UNKNOWCAL D 0.9453 NO2986.0 04444444 T -0.  
 C 6 H 18 B 3 N 3  
 Mw 232.68 MI 32.78 MA 0.0895 MD 4.92 EM 18.57 GR 5.07

N,N PRIME-N2-PRIME,N,N PRIME,N2-PRIME-HEXAMETHYLBORAZOLE  
 CA 59.16112ORGAN. SOLIDEST U 0.8400 NO 881.0 04444444 T 98.00  
 C 6 H 18 B 3 N 3  
 Mw 164.69 MI 28.98 MA 0.0890 MD 5.53 EM 20.72 GR 6.36

2,4,6-TRIETHYLBORAZINE  
 CA 51. 44750ORGAN. LIQUIDKNO D 0.5650 NO 179.0 04444444 T -54.00  
 C 6 H 18 B 3 N 3  
 Mw 164.69 MI 28.98 MA 0.0918 MD 5.70 EM 20.72 GR 6.56

A 111

CALCIUM DIHYDRIIDE-BIS(THIOMETHYLAMINE)  
 CA 54. 21450ORGAN. SOLIDICAL D 1.1897 NO2992.0 04444444 T -0.  
 C 6 H 20 B 2 CA 1 O 6  
 Mw 249.95 MI 34.32 MA 0.0984 MD 5.73 EM 21.96 GR 6.18

TRIS(DIMETHYLAMINE)TRISBORANE  
 AD 78. 3970ORGAN. UNKNOWCAL D 0.9197 NO4391.0 04444444 T -0.  
 C 6 H 20 B 3 N 3  
 Mw 166.71 MI 30.98 MA 0.1029 MD 6.65 EM 22.19 GR 7.37

TRIS(DIMETHYLAMINO)BORTHIN-ALUMINUM MERCAPTAN  
 CA 49.13002ORGAN. UNKNOWCAL D 1.8125 NO2993.0 04444444 T -0.  
 C 6 H 21 B 1 N 3  
 Mw 307.66 MI 41.07 MA 0.1159 MD 5.92 EM 29.47 GR 8.31

TRIS(DIMETHYLAMINO)BOKINE  
 CA 49.10435ORGAN. UNKNOWEST D 0.8100 NO 885.0 04444444 T -0.  
 C 6 H 21 B 1 N 3  
 Mw 146.08 MI 30.04 MA 0.1026 MD 7.19 EM 20.14 GR 6.89

HEXAMETHYLPHOSPHORUS TRIAMIDE BORINE  
 CA 54. 34160ORGAN. UNKNOWCAL D 0.9284 NO2994.0 04444444 T -0.  
 C 6 H 21 B 1 N 3  
 Mw 177.05 MI 31.37 MA 0.0991 MD 6.63 EM 21.96 GR 6.94

TRIS(METHYLCHLORODORINE)-METHYLAMINE  
 GR 13. 2470ORGAN. SOLIDICAL D 1.2421 NO2995.0 04444444 T 125.00  
 C 6 H 21 B 3 N 3  
 Mw 274.09 MI 35.58 MA 0.0971 MD 5.73 EM 606.26 GR 165.49

1,3,5-TRIMETHYL-2,4,6-TRIS(METHYLAMINO)BORAZINE  
 CA 54. 63780ORGAN. UNKNOWEST D 0.9500 NO 886.0 04444444 T -0.  
 C 6 H 21 B 3 N 3  
 Mw 209.74 MI 35.19 MA 0.0980 MD 5.73 EM 26.16 GR 7.14

TRIS(DIMETHYLAMINO)BORAZINE  
 CA 54.12980ORGAN. SOLIDEST D 0.9300 NO1746.0 04444444 T 112.50  
 C 6 H 21 B 3 N 3  
 Mw 209.74 MI 35.19 MA 0.0940 MD 5.81 EM 26.16 GR 6.99

DIMETHYLPHOSPHINOBORINE TRIMER  
 AD192. 0280ORGAN. LIQUIDICAL D 1.1871 NO4204.0 04444414 T -0.  
 C 6 H 21 B 3 P 3  
 Mw 218.62 MI 32.76 MA 0.1072 MD 6.87 EM 25.15 GR 8.23

TRIETHYLPENTABORANE  
 CA 54.12970ORGAN. UNKNOWCAL D 0.8916 NO2996.0 04444444 T -0.  
 C 6 H 21 B 5  
 Mw 147.33 MI 30.71 MA 0.1119 MD 7.65 EM 22.45 GR 8.19

A 110

HEXAMETHYLBORAZOLE  
 GR 13. 2230ORGAN. UNKNOWEST D 0.8400 NO 788.0 04444444 T -0.  
 C 6 H 18 B 3 N 3  
 Mw 164.69 MI 28.98 MA 0.0890 MD 5.53 EM 20.72 GR 6.36

1,3,5-TRIETHYLBORAZINE  
 CA 49. 83120ORGAN. LIQUIDKNO D 0.8390 NO 196.0 04444444 T -49.60  
 C 6 H 18 B 3 N 3  
 Mw 164.69 MI 28.98 MA 0.0889 MD 5.52 EM 20.72 GR 6.36

2,4,6-TRIETHOXYBORAZINE  
 CA 53.11079ORGAN. SOLIDEST D 0.9500 NO 882.0 04444444 T 53.50  
 C 6 H 18 B 3 N 3  
 Mw 212.69 MI 31.95 MA 0.0860 MD 4.84 EM 20.72 GR 5.57

2,4,6-TRIMETHOXY-1,3,5-TRIMETHYLBORAZINE  
 CA 54. 2630ORGAN. LIQUIDEST D 0.9900 NO 883.0 04444444 T -0.  
 C 6 H 18 B 3 N 3  
 Mw 212.69 MI 31.95 MA 0.0860 MD 4.84 EM 20.72 GR 5.57

TRIS(DIMETHYLAMINO)BOROXIN  
 CA 46. 38390ORGAN. SOLIDEST U 0.9500 NO 884.0 04444444 T 64.00  
 C 6 H 18 B 3 N 3  
 Mw 212.69 MI 31.95 MA 0.0860 MD 4.84 EM 20.72 GR 5.57

TRIS(DIMETHYLAMINO)BORTHIN  
 NACH 33780ORGAN. UNKNOWCAL D 1.4317 NO2988.0 04444444 T -0.  
 C 6 H 18 B 4 O 9 S 3  
 Mw 395.31 MI 41.49 MA 0.0905 MD 3.93 EM 23.94 GR 5.22

TRIS(DIMETHYLAMINO)BORTHIN  
 CA 46.13002ORGAN. SOLIDICAL D 1.1680 NO2987.0 04444444 T 118.00  
 C 6 H 18 B 3 N 3  
 Mw 260.87 MI 32.88 MA 0.0887 MD 4.85 EM 22.99 GR 6.20

PHENOLYDECABORANE  
 CA 54.10830ORGAN. UNKNOWCAL D 1.1340 NO2989.0 04444444 T -0.  
 C 6 H 18 B 10 O 1  
 Mw 214.41 MI 33.55 MA 0.1049 MD 5.73 EM 27.22 GR 8.67

DIMETHYLAMONIUM TETRAFLUOROBORATE-2-DIMETHYL ETHER  
 CA 50. 77360ORGAN. LIQUIDICAL D 1.1438 NO2990.0 04444444 T -70.00  
 C 6 H 18 B 1 F 4 O 3  
 Mw 226.04 MI 32.96 MA 0.1005 MD 4.79 EM 15.73 GR 4.79

LITHIUM TETRAETHOXYBORATE-BIS(METHANOL)  
 CA 54. 12370ORGAN. UNKNOWCAL D 1.2059 NO2991.0 04444444 T -0.  
 C 6 H 20 B 1 Li 1 O 6  
 Mw 209.94 MI 32.78 MA 0.1156 MD 7.05 EM 16.25 GR 5.73

A 112

GLUCOSAMINE-PHENYLAMINE  
 AD231. 4230ORGAN. UNKNOWCAL D 1.1471 NO4205.0 04444444 T -0.  
 C 6 H 21 B 10 N 1  
 Mw 215.44 MI 36.63 MA 0.1175 MD 6.73 EM 30.50 GR 9.78

LITHIUM TRIAMMONIUMBORATE-BIS(THIOMETHYLAMINE)  
 CA 51. 1210ORGAN. UNKNOWCAL D 0.8731 NO2997.0 04144441 T -0.  
 C 6 H 22 B 1 Li 1 N 2  
 Mw 140.02 MI 30.98 MA 0.1164 MD 8.26 EM 19.87 GR 7.46

SODIUM BOROXYLIDE-AMINO(THIOMETHYLAMINE)  
 NACH 33780ORGAN. SOLIDICAL D 1.0133 NO2998.0 04444444 T 85.00  
 C 6 H 22 B 1 N 4 Na 1  
 Mw 184.08 MI 33.32 MA 0.1105 MD 7.29 EM 25.84 GR 8.57

BORANE-BIS(THIOMETHYLSILYL)PHOSPHINE  
 AD292. 0940ORGAN. UNKNOWCAL D 1.0477 NO4207.0 04444444 T -0.  
 C 6 H 22 B 1 P 1 Si 2  
 Mw 192.22 MI 31.68 MA 0.1049 MD 7.22 EM 21.02 GR 6.90

BIS(THIOMETHYLBORINE)-HYDRAZINE  
 NACH 49410ORGAN. SOLIDEST D 0.8500 NO 887.0 04444441 T -0.  
 C 6 H 22 B 2 N 2  
 Mw 143.90 MI 30.94 MA 0.1101 MD 7.83 EM 21.18 GR 7.94

POLYMERIC DIMETHYLPHOSPHINODIMETHYLAMINOTRIBORINE  
 CA 54.20840ORGAN. POLYMERICAL D 1.2567 NO4131.0 04444414 T -0.  
 C 4 H 17 B 3 N 1 P 1  
 Mw 142.62 MI 25.55 MA 0.1356 MD 9.07 EM 19.62 GR 10.41

TRIS(DIMETHYLAMINO)TRISBORANE  
 AD249. 9500ORGAN. UNKNOWCAL D 0.8212 NO4206.0 04444444 T -0.  
 C 6 H 24 B 3 N 3  
 Mw 170.74 MI 34.98 MA 0.1013 MD 6.95 EM 25.12 GR 7.28

TRIS(DIMETHYLAMINO)TRISBORANE  
 CA 51.11153ORGAN. SOLIDEST D 0.8400 NO 888.0 04444440 T 95.00  
 C 6 H 22 B 3 N 3  
 Mw 168.73 MI 32.98 MA 0.0989 MD 6.60 EM 23.65 GR 7.09

TRIS(DIMETHYLAMINO)BOROXINE  
 CA 54. 8430ORGAN. UNKNOWEST D 0.8400 NO 889.0 04444444 T -0.  
 C 6 H 24 B 3 N 3  
 Mw 170.74 MI 34.98 MA 0.1037 MD 7.11 EM 25.12 GR 7.44

TRIS(METHYLBORON OXIDE)-TRIS(METHYLAMINE)  
 GR 13. 2230ORGAN. SOLIDICAL D 0.9509 NO4096.0 04444444 T -0.  
 C 6 H 24 B 3 N 3 O 3  
 Mw 218.74 MI 37.95 MA 0.0994 MD 6.28 EM 25.12 GR 6.58

A 113

TRIS(HYDROXYMETHYL)BORONINE  
CA 13. 2230ORGAN. UNKNOWLED D 0.9500 NO 890.0 0444444 T -0.  
C 6 H 24 B 3 N 3  
MW 218.74 MI 37.95 MA 0.0993 MD 6.28 EM 29.12 GR 0.57

1,1,3,3,5,5-HEXAMETHYLBOROPHOSPHANE  
CA 53. 160620ORGAN. SOLIDCAL D 0.9600 NO 197.0 04101411 T 85.50  
C 6 H 24 B 3 P 3  
MW 221.64 MI 35.76 MA 0.0933 MD 6.26 EM 27.35 GR 7.14

PENTABORANE-TRIMETHYLAMINE  
CA 52. 108690ORGAN. UNKNOWLED D 0.8448 NO2999.0 04444444 T -0.  
C 6 H 24 B 5 N 1  
MW 164.37 MI 34.78 MA 0.1077 MD 7.43 EM 25.75 GR 7.97

CYCLOHEXYL DECABORANE  
CA 53. 1306ORGAN. SOLIDCAL D 1.0301 NO3000.0 04444444 T 90.50  
C 12 H 24 B 10  
MW 204.46 MI 38.56 MA 0.1170 MD 7.28 EM 31.62 GR 9.60

DECAHEXAMETHYL-CYCLOHEXYLAMINE  
CA 53. 130620ORGAN. UNKNOWLED D 1.0233 NO4207.0 04444444 T -0.  
C 18 H 24 B 10 N 1  
MW 219.47 MI 40.63 MA 0.1141 MD 7.02 EM 33.44 GR 9.39

DISODIUM SCYLLITOLIDIBORATE NONAHYDRATE  
CA 52. 162230ORGAN. UNKNOWLED D 1.4906 NO3001.0 04444444 T -0.  
C 6 H 26 B 2 Na 2 O 17  
MW 437.90 MI 52.05 MA 0.1067 MD 5.33 EM 29.77 GR 6.10

TRIMETHYLDECABORANE  
CA 54. 129740ORGAN. UNKNOWLED D 0.9747 NO3002.0 04444444 T -0.  
C 6 H 26 B 10  
MW 206.47 MI 40.56 MA 0.1153 MD 7.39 EM 33.09 GR 9.41

HEXYLDECABORANE  
CA 53. 130450ORGAN. LIQUIDCAL D 0.9747 NO3003.0 04444444 T -0.  
C 18 H 26 B 10  
MW 206.47 MI 40.56 MA 0.1153 MD 7.39 EM 33.09 GR 9.41

BIS(TRIMETHYLAMINE)-PENTABORANE  
CA 54. 83940ORGAN. UNKNOWLED D 0.7900 NO 853.0 04444444 T -0.  
C 6 H 27 B 5 N 2  
MW 181.40 MI 38.85 MA 0.1019 MD 7.08 EM 24.03 GR 7.01

DECABORANE-TRIMETHYLAMINE  
CA 52. 1071. 4230ORGAN. UNKNOWLED D 0.9268 NO4208.0 04444444 T -0.  
C 6 H 24 B 10 N 1  
MW 223.31 MI 44.63 MA 0.1115 MD 7.24 EM 36.37 GR 9.08

A 115

4,7-DIBENZYLIMIDAZOLE-2-DIAZONIUM TETRAFLUOROBORATE  
CA 53. 113530ORGAN. SOLIDCAL D 1.2059 NO3013.0 04444444 T 134.00  
C 17 H 15 B 3 F 4 N 4  
MW 231.97 MI 21.08 MA 0.0660 MD 1.57 EM 9.79 GR 3.06

1,1-DIMETHYLIMIDAZOLE-2-DIAZONIUM TETRAFLUOROBORATE  
CA 54. 121150ORGAN. SOLIDCAL D 1.2059 NO3014.0 04444444 T 120.00  
C 11 H 13 B 3 F 4 N 4  
MW 231.97 MI 21.08 MA 0.0660 MD 1.57 EM 9.79 GR 3.06

ALPHA, ALPHA, ALPHA-TRIFLUORO-META-NITROTOLUENE TETRAFLUOROBORATE  
CA 54. 32820ORGAN. UNKNOWLED D 1.3198 NO3015.0 04444444 T -0.  
C 7 H 5 B 3 F 7 N 1 O 2  
MW 278.94 MI 23.72 MA 0.0674 MD 1.42 EM 6.77 GR 1.97

BORON TRIFLUORIDE-BENZOTRIFLUORIDE-NITROSYL OXYFLUORIDE  
CA 51. 103980ORGAN. SOLIDCAL D 1.3198 NO3016.0 04444444 T -0.  
C 7 H 5 B 3 F 7 N 1 O 2  
MW 278.94 MI 23.72 MA 0.0674 MD 1.42 EM 6.77 GR 1.97

4,2-IAZIDOPORMYL-NITROBENZENE-BORONIC ACID  
CA 52. 145530ORGAN. SOLIDCAL D 1.2006 NO3017.0 04444444 T -0.  
C 7 H 5 B 3 N 4 O 5  
MW 235.97 MI 20.87 MA 0.0640 MD 1.53 EM 9.50 GR 2.91

4,3-IAZIDOPORMYL-NITROBENZENE-BORONIC ACID  
CA 52. 145540ORGAN. UNKNOWLED D 1.2006 NO3018.0 04444444 T -0.  
C 7 H 5 B 3 N 4 O 5  
MW 235.97 MI 20.87 MA 0.0640 MD 1.53 EM 9.50 GR 2.91

3,3-IAZIDOPORMYL-NITROBENZENE-BORONIC ACID  
CA 52. 145540ORGAN. UNKNOWLED D 1.2006 NO3019.0 04444444 T -0.  
C 7 H 5 B 3 N 4 O 5  
MW 235.97 MI 20.87 MA 0.0640 MD 1.53 EM 9.50 GR 2.91

BORON TRIFLUORIDE-ANTI-PARA-CHLOROBENZALDOXIME  
CA 50. 89240ORGAN. SOLIDCAL D 1.2838 NO3020.0 04444444 T 190.50  
C 7 H 6 B 3 F 3 N 1 O 1  
MW 223.41 MI 19.77 MA 0.0684 MD 2.08 EM 201.66 GR 69.80

BORON TRIFLUORIDE-SYN-PARA-CHLOROBENZALDOXIME  
CA 50. 89240ORGAN. SOLIDCAL D 1.2838 NO3021.0 04444444 T -0.  
C 7 H 6 B 3 F 3 N 1 O 1  
MW 223.41 MI 19.77 MA 0.0684 MD 2.08 EM 201.66 GR 69.80

DIFLUORIDE-1,3,5-CYCLOHEPTATRIEN-1-YLOXYBORANE  
CA 48. 30430ORGAN. UNKNOWLED D 1.2201 NO3022.0 04444444 T -0.  
C 7 H 4 B 2 F 2 O 2  
MW 170.94 MI 17.20 MA 0.0739 MD 2.98 EM 6.06 GR 2.80

A 114

PENTABORANE-TRIS(DIMETHYLAMINE)  
CA 52. 108690ORGAN. UNKNOWLED D 0.7920 NO 463.0 04144441 T -0.  
C 6 H 30 B 5 N 3  
MW 198.43 MI 42.92 MA 0.1032 MD 7.21 EM 32.31 GR 7.77

DECABORANE-DIMETHYLAMINE  
CA 53. 49980ORGAN. SOLIDCAL D 0.8991 NO3004.0 04111441 T -0.  
C 6 H 30 B 10 N 3  
MW 257.57 MI 52.77 MA 0.1060 MD 7.03 EM 42.93 GR 8.63

BORON TRICHLORIDE-PARACRYANONITROBENZENE  
CA 54. 209690ORGAN. SOLIDCAL D 1.6710 NO3006.0 04444444 T 130.00  
C 7 H 4 B 3 Cl 3 N 1  
MW 254.78 MI 16.51 MA 0.0652 MD 1.58 EM 783.30 GR 309.46

2-OXO-5-BENZOXAZOLINEDIAZONIUM TETRAFLUOROBORATE  
CA 53. 52460ORGAN. SOLIDCAL D 1.3077 NO3007.0 04444444 T 160.00  
C 7 H 4 B 3 F 4 N 3 O 2  
MW 248.93 MI 20.99 MA 0.0664 MD 1.27 EM 7.98 GR 2.52

4,2-ICHLOROFORMYL-NITROBENZENE-BORONIC ACID  
CA 52. 145530ORGAN. UNKNOWLED D 1.3533 NO3008.0 04444444 T -0.  
C 7 H 5 B 3 Cl 1 N 1 O 5  
MW 229.40 MI 18.86 MA 0.0670 MD 1.78 EM 200.71 GR 71.32

3,3-ICHLOROFORMYL-NITROBENZENE-BORONIC ACID  
CA 52. 145540ORGAN. UNKNOWLED D 1.3533 NO3009.0 04444444 T -0.  
C 7 H 5 B 3 Cl 1 N 1 O 5  
MW 229.40 MI 18.86 MA 0.0670 MD 1.78 EM 200.71 GR 71.32

BORON TRICHLORIDE-BENZONITRILE  
CA 54. 209690ORGAN. UNKNOWLED D 1.5117 NO3010.0 04444444 T -0.  
C 7 H 5 B 3 Cl 3 N 1  
MW 220.31 MI 16.31 MA 0.0674 MD 2.07 EM 589.59 GR 243.67

BORON TRIFLUORIDE-PHENYL NITRILE  
CA 52. 194540ORGAN. UNKNOWLED D 1.6900 NO 894.0 04444444 T -0.  
C 7 H 5 B 3 F 3 N 1  
MW 170.94 MI 16.50 MA 0.0987 MD 2.98 EM 6.48 GR 3.86

CARBOXYBENZENDIAZONIUM TETRAFLUOROBORATE  
CA 52. 108690ORGAN. UNKNOWLED D 1.2679 NO3011.0 04444444 T -0.  
C 7 H 5 B 3 F 4 N 3 O 2  
MW 235.93 MI 20.92 MA 0.0677 MD 1.62 EM 7.83 GR 2.47

9,10-BENZINDAZOLE-2-DIAZONIUM TETRAFLUOROBORATE  
CA 53. 113530ORGAN. UNKNOWLED D 1.2059 NO3012.0 04444444 T -0.  
C 17 H 15 B 3 F 4 N 4  
MW 231.97 MI 21.08 MA 0.0660 MD 1.57 EM 9.79 GR 3.06

A 114

BORON TRIFLUORIDE-BENZALDEHYDE  
CA 49. 47620ORGAN. SOLIDEST D 1.1800 NO 891.0 04444444 T 97.50  
C 7 H 6 B 3 F 3 O 1  
MW 173.94 MI 17.50 MA 0.0715 MD 2.45 EM 6.13 GR 2.51

ALPHA, ALPHA, ALPHA-TRIFLUORO-M-TOLUENE-BORONIC ACID  
CA 54. 70400ORGAN. UNKNOWLED D 1.2100 NO 897.0 04444444 T -0.  
C 7 H 5 B 3 F 3 N 1 O 5  
MW 189.94 MI 18.49 MA 0.0709 MD 2.30 EM 6.13 GR 2.33

NITROTOLUENEDIAZONIUM FLUOROBORATE  
CA 52. 108690ORGAN. UNKNOWLED D 1.1867 NO3023.0 04444444 T -0.  
C 7 H 6 B 3 F 4 N 3 O 2  
MW 230.97 MI 22.99 MA 0.0659 MD 1.71 EM 9.44 GR 2.69

2-NITROTOLUENE-N-DIAZONIUM TETRAFLUOROBORATE  
CA 54. 121160ORGAN. UNKNOWLED D 1.1867 NO3024.0 04444444 T -0.  
C 7 H 6 B 3 F 4 N 3 O 2  
MW 230.97 MI 22.99 MA 0.0659 MD 1.71 EM 9.44 GR 2.69

2-FLUORO-9-NITHTYLBENZENDIAZONIUM TETRAFLUOROBORATE  
CA 54. 109170ORGAN. UNKNOWLED D 1.1982 NO3025.0 04444444 T -0.  
C 7 H 6 B 3 F 3 N 2  
MW 223.96 MI 21.23 MA 0.0684 MD 1.93 EM 8.44 GR 2.72

3,4-BORONNITROBENZEOIC ACID  
CA 54. 13740ORGAN. SOLIDCAL D 1.2092 NO3026.0 04444444 T 219.00  
C 7 H 5 B 3 N 4 O 5  
MW 210.43 MI 19.65 MA 0.0678 MD 2.07 EM 7.00 GR 2.47

3,5-BORONNITROBENZEOIC ACID  
CA 54. 13740ORGAN. SOLIDCAL D 1.2092 NO3027.0 04444444 T 229.00  
C 7 H 5 B 3 N 4 O 5  
MW 210.43 MI 19.65 MA 0.0678 MD 2.07 EM 7.00 GR 2.47

4,2-BORONNITROBENZEOIC ACID  
CA 52. 145530ORGAN. SOLIDCAL D 1.2092 NO3028.0 04444444 T -0.  
C 7 H 5 B 3 N 4 O 5  
MW 210.43 MI 19.65 MA 0.0678 MD 2.07 EM 7.00 GR 2.47

DICHLORO-META-TOXYBORINE  
CA 53. 34440ORGAN. LIQUIDCAL D 1.2823 NO3029.0 04444444 T -0.  
C 7 H 7 B 2 Cl 2  
MW 172.87 MI 17.44 MA 0.0717 MD 3.13 EM 395.93 GR 176.73

DICHLORODIMETHYLAMINE  
CA 51. 49840ORGAN. LIQUIDEST D 1.2000 NO 893.0 04444444 T -0.  
C 7 H 7 B 2 Cl 2  
MW 172.87 MI 17.44 MA 0.0717 MD 3.13 EM 395.93 GR 176.73



A 117

DICHLORO-P-TOLYLBORINE  
JACS 79. 5185ORGAN.LIQUIDKND D 1.2000 NO 198.0 04114444 T -0.  
C 7 H 7 B 1 CL 2  
MW 172.87 MI 16.04 MA 0.0671 MD 2.93 EM 395.53 GR 164.18

DICHLOROTRIMETHYLOXYBORANE  
CA 51. 2777ORGAN.UNKNOWEST D 1.2000 NO 894.0 01444444 I -0.  
C 7 H 7 B 1 CL 2 O 1  
MW 188.87 MI 17.03 MA 0.0652 MD 2.68 EM 395.54 GR 151.37

DICHLORO-PARAMETHOXYPHENYLBORINE  
CA 53. 1794ORGAN. SOLIDEST D 1.2000 NO 895.0 04444444 I 35.50  
C 7 H 7 B 1 CL 2 O 1  
MW 188.87 MI 17.03 MA 0.0652 MD 2.68 EM 395.54 GR 151.37

BORON TRICHLORIDE-BENZANIDE  
CA 54.18147ORGAN. SOLIDICAL D 1.1351 NO3030.0 04444444 I 95.00  
C 7 H 7 B 1 CL 3 N 1 O 1  
MW 238.33 MI 19.30 MA 0.0651 MD 2.36 EM 591.06 GR 199.43

BORON TRICHLORIDE-METHYL NICOTINATE  
CA 51.18679ORGAN.UNKNOWCAL D 1.1373 NO3031.0 04444444 I -0.  
C 7 H 7 B 1 CL 3 N 1 O 2  
MW 254.33 MI 20.29 MA 0.0643 MD 2.22 EM 591.06 GR 187.70

BORON TRICHLORIDE-METHYL ISONICOTINATE  
CA 53.18679ORGAN.UNKNOWCAL D 1.1373 NO3032.0 04444444 I -0.  
C 7 H 7 B 1 CL 3 N 1 O 2  
MW 254.33 MI 20.29 MA 0.0643 MD 2.22 EM 591.06 GR 187.70

DIFLUORO-P-TOLYLBORINE  
JACS 79. 5185ORGAN.LIQUIDKND D 1.0550 NO 199.0 04114444 T -0.  
C 7 H 7 B 1 F 2  
MW 139.04 MI 16.22 MA 0.0737 MD 3.18 EM 6.79 GR 3.08

CYCLOHEPTA-2,4,8-TRIENECARBOXYL TETRAFLUOROBORATE  
CA 54. 7587ORGAN.UNKNOWCAL D 1.1526 NO3033.0 04444444 I -0.  
C 7 H 7 B 1 F 4  
MW 177.95 MI 16.80 MA 0.0733 MD 2.73 EM 6.94 GR 2.71

TOLUENEDIAZONIUM TETRAFLUOROBORATE  
CA 54.10913ORGAN.UNKNOWCAL D 1.1198 NO3034.0 04444444 I -0.  
C 7 H 7 B 1 F 4 N 2  
MW 205.97 MI 20.94 MA 0.0886 MD 2.29 EM 9.10 GR 2.98

PARA-TOLUENEDIAZONIUM FLUOROBORATE  
CA 53. 8057ORGAN.UNKNOWCAL D 1.1198 NO3035.0 04444444 I -0.  
C 7 H 7 B 1 F 4 N 2  
MW 205.97 MI 20.94 MA 0.0886 MD 2.29 EM 9.10 GR 2.98

A 119

PARA-TOLUENEDIAZONIUM FLUOROBORATE  
CA 54.12292ORGAN. SOLIDEST D 1.2000 NO 901.0 04444444 I 205.50  
C 7 H 7 B 1 F 4 N 2  
MW 133.95 MI 15.62 MA 0.0843 MD 3.78 EM 6.64 GR 3.59

1-HYDROXY-1,2-DIBOROXINDANE  
CA 51.14583ORGAN.UNKNOWEST D 1.2000 NO 902.0 04444444 I -0.  
C 7 H 7 B 1 O 2  
MW 133.95 MI 15.62 MA 0.0843 MD 3.78 EM 6.64 GR 3.59

METHYL O-PHENYLENE BORATE  
CA 53. 2190ORGAN. SOLIDKND D 1.1890 NO 450.0 04444444 I 119.00  
C 7 H 7 B 1 O 3  
MW 149.95 MI 16.61 MA 0.0793 MD 3.34 EM 6.65 GR 3.17

METHYLBENZENEBOSONIC ACID  
CA 54. 2501ORGAN.UNKNOWEST D 1.1900 NO 903.0 04444444 I -0.  
C 7 H 7 B 1 O 3  
MW 149.95 MI 16.61 MA 0.0794 MD 3.35 EM 6.65 GR 3.18

(ORTHO-FORMYLPHENYL)DIHYDROXYBORANE  
CA 51.14583ORGAN.UNKNOWEST D 1.1900 NO 904.0 04444444 I -0.  
C 7 H 7 B 1 O 3  
MW 149.95 MI 16.61 MA 0.0794 MD 3.35 EM 6.65 GR 3.18

(PARA-FORMYLPHENYL)DIHYDROXYBORANE  
CA 51.14583ORGAN.UNKNOWEST D 1.1900 NO 905.0 04444444 I 0.  
C 7 H 7 B 1 O 3  
MW 149.95 MI 16.61 MA 0.0794 MD 3.35 EM 6.65 GR 3.18

METABORONOBENZOIDIC ACID  
CA 52.14553ORGAN.UNKNOWCAL D 1.1296 NO3041.0 04444444 I -0.  
C 7 H 7 B 1 O 4  
MW 165.95 MI 17.60 MA 0.0722 MD 2.87 EM 6.65 GR 2.73

PARABORONOBENZOIDIC ACID  
CA 52.10923ORGAN. SOLIDICAL D 1.1296 NO3042.0 04444444 I 219.50  
C 7 H 7 B 1 O 4  
MW 165.95 MI 17.60 MA 0.0722 MD 2.87 EM 6.65 GR 2.73

CHLOROMETHYLPHENYLBORINE  
CA 54. 8684ORGAN.LIQUIDKND D 1.0440 NO 406.0 04444444 I -0.  
C 7 H 8 B 1 CL 1  
MW 138.42 MI 15.84 MA 0.0720 MD 3.63 EM 201.82 GR 91.69

CHLOROMETHOXYPHENYLBORINE  
CA 52. 2920ORGAN.LIQUIDKND D 1.0860 NO 455.0 04444444 I -0.  
C 7 H 8 B 1 CL 1 O 1  
MW 154.42 MI 16.83 MA 0.0713 MD 3.34 EM 201.82 GR 85.50

A 118

PARA-METHOXYBENZENE DIAZONIUM TETRAFLUOROBORATE  
CA 54.10913ORGAN.UNKNOWCAL D 1.1348 NO3036.0 04444444 I -0.  
C 7 H 7 B 1 F 4 N 2 O 1  
MW 221.97 MI 21.93 MA 0.0675 MD 2.16 EM 9.10 GR 2.80

4,3-CARBAMOYLNITROBENZENEBOSONIC ACID  
CA 52.14553ORGAN.UNKNOWCAL D 1.1161 NO3037.0 04444444 I -0.  
C 7 H 7 B 1 N 2 O 5  
MW 209.97 MI 20.73 MA 0.0664 MD 2.24 EM 8.81 GR 2.82

3,5-CARBAMOYLNITROBENZENEBOSONIC ACID  
CA 52.14553ORGAN.UNKNOWCAL D 1.1161 NO3038.0 04444444 I -0.  
C 7 H 7 B 1 N 2 O 5  
MW 209.97 MI 20.73 MA 0.0664 MD 2.24 EM 8.81 GR 2.82

4,2-CARBAMOYLNITROBENZENEBOSONIC ACID  
CA 52.14553ORGAN.UNKNOWCAL D 1.1161 NO3039.0 04444444 I -0.  
C 7 H 7 B 1 N 2 O 5  
MW 209.97 MI 20.73 MA 0.0664 MD 2.24 EM 8.81 GR 2.82

3,5-DINITRO-ORTHO-TOLUENEBOSONIC ACID  
CA 52.14553ORGAN. SOLIDICAL D 1.1310 NO3040.0 04444444 I 208.00  
C 7 H 7 B 1 N 2 O 6  
MW 225.97 MI 21.72 MA 0.0655 MD 2.11 EM 8.81 GR 2.66

META-TOLYL BORON OXIDE  
CA 47.12282ORGAN. SOLIDEST D 0.9800 NO 896.0 04444444 I 160.80  
C 7 H 7 B 1 O 1  
MW 117.95 MI 14.63 MA 0.0732 MD 3.50 EM 6.64 GR 3.32

PARA-TOLYL BORON OXIDE  
CA 47.12282ORGAN. SOLIDEST D 0.9800 NO 897.0 04444444 I 247.00  
C 7 H 7 B 1 O 1  
MW 117.95 MI 14.63 MA 0.0732 MD 3.50 EM 6.64 GR 3.32

METHYL META BORATE  
CA 53. 8610ORGAN. SOLIDEST D 1.2000 NO 898.0 04444444 I -0.  
C 7 H 7 B 1 O 2  
MW 133.95 MI 15.62 MA 0.0843 MD 3.78 EM 6.64 GR 3.59

1,3-DIHYDRO-1-HYDROXY-2,1-DENZOXABOROLE  
CA 53. 8610ORGAN.UNKNOWEST D 1.2000 NO 899.0 04444444 I -0.  
C 7 H 7 B 1 O 2  
MW 133.95 MI 15.62 MA 0.0843 MD 3.78 EM 6.64 GR 3.59

ORTHO-PHENYLENE METHYLBORONATE  
CA 52.10723ORGAN. SOLIDEST D 1.2000 NO 900.0 04444444 I 97.00  
C 7 H 7 B 1 O 2  
MW 133.95 MI 15.62 MA 0.0843 MD 3.78 EM 6.64 GR 3.59

120

METHYLAMINE DIHYDROBORINE  
CA 53. 7065ORGAN.UNKNOWEST D 1.2000 NO 906.0 04444444 I -0.  
C 7 H 8 B 1 CL 2 N 1  
MW 187.88 MI 18.11 MA 0.0697 MD 3.08 EM 397.35 GR 152.86

DICHLOROIN-METHYLANILINOBORINE  
CA 54. 8742ORGAN.LIQUIDEST D 1.2000 NO 907.0 04444444 I -0.  
C 7 H 8 B 1 CL 2 N 1  
MW 187.88 MI 18.11 MA 0.0697 MD 3.08 EM 397.35 GR 152.86

BORON TRIFLUORIDE-ANISOLE  
CA 53. 4183ORGAN.LIQUIDEST D 1.1800 NO 908.0 04444444 I -0.  
C 7 H 8 B 1 F 3 O 1  
MW 175.96 MI 19.50 MA 0.0788 MD 3.23 EM 7.60 GR 3.07

N-METHYL-N-PHENYLBORAZINE  
CA 13. 2410ORGAN.LIQUIDEST D 0.9800 NO 909.0 04444444 I -0.  
C 7 H 8 B 1 N 1  
MW 116.97 MI 15.71 MA 0.0712 MD 3.63 EM 8.45 GR 3.83

2,1-DIHYDRO-2-METHYL-1,3,2-BENZOXABORONE  
CA 52.15511ORGAN.UNKNOWEST D 1.0000 NO 910.0 04444444 I -0.  
C 7 H 8 B 1 N 1 O 1  
MW 132.97 MI 16.70 MA 0.0756 MD 3.62 EM 8.46 GR 3.83

PARAFORMYLXIME BENZENEBOSONIC ACID  
CA 52.10923ORGAN.UNKNOWCAL D 1.0274 NO3043.0 04444444 I 147.50  
C 7 H 8 B 1 N 1 O 3  
MW 164.97 MI 18.68 MA 0.0701 MD 3.00 EM 8.46 GR 3.17

4-BORONANTHRANILIC ACID  
CA 52.14553ORGAN. SOLIDICAL D 1.0507 NO3044.0 04444444 I 361.00  
C 7 H 8 B 1 N 1 O 4  
MW 180.97 MI 19.67 MA 0.0688 MD 2.80 EM 8.46 GR 2.96

4,3-NITROTOLUENEBOSONIC ACID  
CA 52.14553ORGAN. SOLIDICAL D 1.0507 NO3045.0 04444444 I 262.00  
C 7 H 8 B 1 N 1 O 4  
MW 180.97 MI 19.67 MA 0.0688 MD 2.80 EM 8.46 GR 2.96

3-AMINOBORONOBENZOIDIC ACID  
CA 52.14553ORGAN.UNKNOWCAL D 1.0507 NO3046.0 04444444 I -0.  
C 7 H 8 B 1 N 1 O 4  
MW 180.97 MI 19.67 MA 0.0688 MD 2.80 EM 8.46 GR 2.96

4,2-AMINOBENZOIDIC ACID/BORONIC ACID  
CA 52.14553ORGAN.UNKNOWCAL D 1.0507 NO3047.0 04444444 I -0.  
C 7 H 8 B 1 N 1 O 4  
MW 180.97 MI 19.67 MA 0.0688 MD 2.80 EM 8.46 GR 2.96

A 121

2,5-METHYLNITROBENZENE-BORONIC ACID  
CA 52.14530ORGAN, UNKNOWNCAL D 1.0507 NO3048.0 04444444 T -0.  
C 7 H 8 B 1 N 1 O 4  
MW 180.97 MI 19.67 MA 0.0688 HD 2.80 EM 8.66 GR 2.96

3,5-BORONITROBENZOIC ACID-WATER  
CA 52.14530ORGAN, UNKNOWNCAL D 1.1048 NO3049.0 04444444 T -0.  
C 7 H 6 B 1 N 1 O 7  
MW 220.97 MI 22.64 MA 0.0659 HD 2.33 EM 8.47 GR 2.46

2-UREIDOBENZENE-1,4-DIBORONIC ACID MONOHYDRIDE  
CA 56.22430ORGAN, SOLIDCAL D 1.0763 NO3050.0 04444444 T 331.00  
C 7 H 8 B 2 N 2 O 4  
MW 205.80 MI 21.71 MA 0.0684 HD 2.92 EM 10.93 GR 3.44

2-CHLORO-1,3,2-DIOXABOROLANE-PYRIDINE  
CA 52.14530ORGAN, SOLIDCAL D 1.1949 NO3051.0 04444444 T 91.00  
C 7 H 9 B 1 CL 1 N 1 O 2  
MW 185.43 MI 19.69 MA 0.0772 HD 3.49 EM 203.64 GR 79.04

BORON TRICHLORIDE-4-(METHYL-PYRIDINE)  
CA 53.16697ORGAN, SOLIDCAL D 1.3593 NO3052.0 04444444 T 110.00  
C 7 H 9 B 3 CL 3 N 1  
MW 226.35 MI 20.31 MA 0.0741 HD 3.28 EM 592.53 GR 216.25

BORON TRICHLORIDE-METHYLPHENYL ANILINE  
NACN .33823ORGAN, SOLIDCAL D 1.3593 NO3053.0 04444444 T 204.50  
C 7 H 9 B 3 CL 3 N 1  
MW 226.35 MI 20.31 MA 0.0741 HD 3.28 EM 592.53 GR 216.25

12-CHLOROETHANOLYDICHLOOROBORINE ANILINE  
CA 50.77200ORGAN, UNKNOWNCAL D 1.3712 NO3054.0 04444444 T -0.  
C 7 H 9 B 2 CL 3 N 1 O 1  
MW 240.35 MI 21.30 MA 0.0732 HD 3.09 EM 592.53 GR 203.61

BORON TRIFLUORIDE-12,6-DIUTIDINE  
NACN .37219ORGAN, SOLIDEST D 1.5000 NO 911.0 04444444 T 135.50  
C 7 H 9 B 1 F 3 N 1  
MW 174.98 MI 20.56 MA 0.1063 HD 4.65 EM 9.41 GR 4.86

BORONTRIFLUORIDE-N-METHYLANILINE  
CA 56.11032ORGAN, UNKNOWNEST D 1.5000 NO 912.0 04444444 T -0.  
C 7 H 9 B 1 F 3 N 1  
MW 174.98 MI 20.56 MA 0.1063 HD 4.65 EM 9.41 GR 4.86

BORON TRIFLUORIDE-ORTHU-METHYLANILINE  
NACN .37219ORGAN, SOLIDEST D 1.5000 NO 913.0 04444444 T -0.  
C 7 H 9 B 1 F 3 N 1  
MW 174.98 MI 20.56 MA 0.1063 HD 4.65 EM 9.41 GR 4.86

A 123

BORANE-BENZALDEHYDE  
CA 50.71970ORGAN, UNKNOWNEST D 0.9700 NO 917.0 04444444 T -0.  
C 7 H 9 B 1 O 1  
MW 119.97 MI 18.63 MA 0.0810 HD 4.38 EM 8.11 GR 3.93

METHYLPHENYLHYDROXYBORANE  
CA 56.80840ORGAN, LIQUIDANO D 0.9729 NO 407.0 04444444 T -0.  
C 7 H 9 B 1 O 1  
MW 119.97 MI 18.63 MA 0.0812 HD 4.40 EM 8.11 GR 3.96

PARA-TOLYBONIC ACID  
CA 49.10213ORGAN, SOLIDEST D 1.2000 NO 974.0 04444444 T 221.50  
C 7 H 9 B 1 O 2  
MW 135.97 MI 17.62 MA 0.0937 HD 4.78 EM 8.11 GR 4.31

BENZYLIDHYDROXYBORANE  
NACN .35521ORGAN, SOLIDEST D 1.1000 NO 918.0 04444444 T 106.00  
C 7 H 9 B 1 O 2  
MW 135.97 MI 17.62 MA 0.0859 HD 4.39 EM 8.11 GR 3.95

ORTHU-TOLUENEBORONIC ACID  
CA 53.91490ORGAN, SOLIDEST D 1.2000 NO 919.0 04444444 T 166.50  
C 7 H 9 B 1 O 2  
MW 135.97 MI 17.62 MA 0.0937 HD 4.78 EM 8.11 GR 4.31

DIMYDROXY-META-TOLYLBORANE  
CA 47.12282ORGAN, UNKNOWNEST D 1.2000 NO 920.0 04444444 T -0.  
C 7 H 9 B 1 O 2  
MW 135.97 MI 17.62 MA 0.0937 HD 4.78 EM 8.11 GR 4.31

PARA-(METHYLTHIO)BENZENE-BORONIC ACID  
CA 52.10925ORGAN, SOLIDCAL D 1.2000 NO3062.0 04444444 T 209.25  
C 7 H 9 B 1 O 2 S 1  
MW 168.03 MI 18.92 MA 0.0814 HD 3.87 EM 8.87 GR 3.82

PHENYLTHIOBENZENE-BORONIC ACID  
CA 56.86520ORGAN, SOLIDCAL D 1.2000 NO3063.0 04444444 T 110.00  
C 7 H 9 B 1 O 2 S 1  
MW 168.03 MI 18.92 MA 0.0814 HD 3.87 EM 8.87 GR 3.82

ALPHA-HYDROXY-TOLYLBORONIC ACID  
CA 53.91490ORGAN, UNKNOWNEST D 1.1000 NO 921.0 04444444 T -0.  
C 7 H 9 B 1 O 3  
MW 151.97 MI 18.61 MA 0.0811 HD 3.92 EM 8.11 GR 3.54

GAMMA-HYDROXYORTHOTOLYLBORONIC ACID  
CA 56.25010ORGAN, UNKNOWNEST D 1.1000 NO 922.0 04444444 T -0.  
C 7 H 9 B 1 O 3  
MW 151.97 MI 18.61 MA 0.0811 HD 3.92 EM 8.11 GR 3.54

A 122

BORON TRIFLUORIDE-PARA-METHYLANILINE  
NACN .37219ORGAN, SOLIDEST D 1.5000 NO 914.0 04444444 T 249.00  
C 7 H 9 B 1 F 3 N 1  
MW 174.98 MI 20.56 MA 0.1063 HD 4.65 EM 9.41 GR 4.86

BORON TRIFLUORIDE-12,6-DIMETHYLPYRIDINE  
CA 51.23750ORGAN, UNKNOWNEST D 1.5000 NO 915.0 04444444 T -0.  
C 7 H 9 B 1 F 3 N 1  
MW 174.98 MI 20.56 MA 0.1063 HD 4.65 EM 9.41 GR 4.86

BORON TRIFLUORIDE-PARA-ANISIDINE  
CA 54.11031ORGAN, UNKNOWNCAL D 1.1344 NO3059.0 04444444 T -0.  
C 7 H 9 B 1 F 3 N 1 O 1  
MW 190.98 MI 21.97 MA 0.0785 HD 3.26 EM 9.41 GR 3.43

BORON TRIFLUORIDE-C7H9O4  
CA 49.74940ORGAN, SOLIDCAL D 1.2280 NO3056.0 04444444 T 151.50  
C 7 H 9 B 1 F 3 O 4  
MW 224.97 MI 23.47 MA 0.0772 HD 2.96 EM 8.34 GR 2.74

TOLYLTETRAFLUOROBORATE  
CA 56.32810ORGAN, LIQUIDCAL D 1.1678 NO3057.0 04444444 T -65.00  
C 7 H 9 B 1 F 4  
MW 179.97 MI 20.80 MA 0.0813 HD 3.52 EM 8.41 GR 3.29

4-NITROMETATOLUIDINIUM TETRAFLUOROBORATE  
CA 53.17094ORGAN, UNKNOWNCAL D 1.1968 NO3058.0 04444444 T -0.  
C 7 H 9 B 1 F 4 N 2 O 2  
MW 239.98 MI 24.92 MA 0.0749 HD 2.70 EM 10.57 GR 3.17

BORON TRIFLUORIDE-ORITHOMETHOXYANILINOBENZENE  
NACN .37219ORGAN, SOLIDCAL D 1.1344 NO3061.0 04444444 T 170.00  
C 7 H 9 B 1 F 3 N 1 O 1  
MW 190.98 MI 21.97 MA 0.0785 HD 3.26 EM 9.41 GR 3.43

2,3-DIHYDRO-2-METHYL-1,3,2-BENZODIAZABOROLE  
CA 52.13511ORGAN, UNKNOWNEST D 1.0000 NO 916.0 04444444 T -0.  
C 7 H 9 B 1 N 2  
MW 131.98 MI 17.78 MA 0.0811 HD 4.11 EM 10.27 GR 4.69

3-AMINE-4-CARBANYLBENZENE-BORONIC ACID  
CA 52.14530ORGAN, UNKNOWNCAL D 1.1027 NO3059.0 04444444 T -0.  
C 7 H 9 B 1 N 2 O 3  
MW 179.98 MI 20.75 MA 0.0786 HD 3.32 EM 10.27 GR 3.79

META-UREEDUOPHENYL-BORONATE  
CA 56.13740ORGAN, SOLIDCAL D 1.1027 NO3060.0 04444444 T 351.00  
C 7 H 9 B 1 N 2 O 3  
MW 179.98 MI 20.75 MA 0.0786 HD 3.32 EM 10.27 GR 3.79

A 124

PARA-ANISYLDIHYDROXYBORANE  
CA 47.12282ORGAN, UNKNOWNEST D 1.1000 NO 923.0 04444444 T -0.  
C 7 H 9 B 1 O 3  
MW 151.97 MI 18.61 MA 0.0811 HD 3.92 EM 8.11 GR 3.54

ORTHOMETHOXYBENZENE-BORONIC ACID  
CA 52.14530ORGAN, LIQUIDEST D 1.0000 NO 924.0 04444444 T 97.50  
C 7 H 9 B 1 O 3  
MW 151.97 MI 18.61 MA 0.0738 HD 3.97 EM 8.11 GR 3.22

PARA-METHOXYBENZENE-BORONIC ACID  
CA 53.17094ORGAN, UNKNOWNEST D 1.2000 NO 925.0 04444444 T -0.  
C 7 H 9 B 1 O 3  
MW 151.97 MI 18.61 MA 0.0885 HD 4.28 EM 8.11 GR 3.86

2-HYDROXY-6-METHOXY-BENZENE-BORONIC ACID  
CA 52.10925ORGAN, SOLIDCAL D 1.1385 NO3064.0 04444444 T 100.50  
C 7 H 9 B 1 O 4  
MW 167.97 MI 19.50 MA 0.0800 HD 3.67 EM 8.12 GR 3.31

BENZYLAMMONIUM TETRACHLOOROBORATE  
CA 53.70850ORGAN, UNKNOWNCAL D 1.3765 NO3065.0 04444444 T -0.  
C 7 H 10 B 1 CL 4 N 1  
MW 260.81 MI 22.51 MA 0.0716 HD 3.18 EM 787.71 GR 250.40

DIFLUOROPHENYLBORINE-METHYLANILINE  
CA 49.10213ORGAN, SOLIDEST D 1.2000 NO 926.0 04444444 T 100.00  
C 7 H 10 B 1 F 2 N 1  
MW 156.98 MI 20.29 MA 0.0934 HD 4.40 EM 10.07 GR 4.64

SODIUM-TRIMETHOXY-PARA-TOLYBORATE  
CA 51.18820ORGAN, UNKNOWNCAL D 1.2292 NO3066.0 04444444 T -0.  
C 7 H 10 B 1 NA 1 O 3  
MW 175.97 MI 20.82 MA 0.0873 HD 4.19 EM 12.74 GR 5.34

SODIUM PARA-METHOXYPHENYLTRIMETHOXYBORATE  
CA 51.18820ORGAN, UNKNOWNCAL D 1.2588 NO3067.0 04444444 T -0.  
C 7 H 10 B 1 NA 1 O 4  
MW 191.97 MI 21.81 MA 0.0861 HD 3.95 EM 12.74 GR 5.03

2-METHYL-3,5-DIAMINOPHENYLBORONIC ACID  
CA 52.14530ORGAN, UNKNOWNCAL D 1.0544 NO3068.0 04444444 T -0.  
C 7 H 11 B 1 N 2 O 3  
MW 166.00 MI 21.76 MA 0.0832 HD 4.21 EM 11.74 GR 4.49

BORANE-12,6-DIMETHYLPYRIDINE  
CA 51.23750ORGAN, SOLIDEST D 0.8800 NO 927.0 04444444 T 106.00  
C 7 H 12 B 1 N 1  
MW 121.00 MI 19.71 MA 0.0863 HD 5.26 EM 11.39 GR 4.99

A 129

TETRAHYDRO-2-N-PROPYL-1,3,6,2-DIOXA-2-BOROCINE  
CA 51. 6532ORGAN. SOLIDEST D 1.0000 NO 963.0 04444444 T 136.00  
C 7 H 16 B 1 N 1 O 2  
MW 157.03 MI 25.69 MA 0.0983 MD 6.14 EM 14.33 GR 5.90

TETRAHYDRO-2-ISO-PROPYL-1,3,6,2-DIOXA-2-BOROCINE  
CA 51. 6532ORGAN. SOLIDEST D 1.0000 NO 964.0 04444444 T 197.00  
C 7 H 16 B 1 N 1 O 2  
MW 157.03 MI 25.69 MA 0.0983 MD 6.14 EM 14.33 GR 5.90

TRIMETHYLBORINE-PYRROLIDINE  
CA 44. 8715ORGAN. LIQUIDKD D 0.8500 NO 775.0 04444444 T 11.00  
C 7 H 17 B 1 N 1  
MW 126.04 MI 24.71 MA 0.1004 MD 6.91 EM 13.06 GR 6.12

2-ISOPENTYL-1,3,2-DIAZABOROLIDINE  
CA 54. 3140ORGAN. LIQUIDKD D 0.9165 NO 204.0 04444444 T -0.  
C 7 H 17 B 1 N 2  
MW 140.05 MI 25.76 MA 0.1016 MD 6.70 EM 14.14 GR 6.36

BUTYL-PROPYLBORONIC ACID  
CA 54.13036ORGAN. LIQUIDKD D 0.7986 NO 1742.0 04444444 T -0.  
C 7 H 17 B 1 O 1  
MW 128.03 MI 24.63 MA 0.0923 MD 6.39 EM 13.98 GR 5.25

DI-PROPYL METHYLBORINATE  
CA 54. 8603ORGAN. LIQUIDKD D 0.7729 NO 408.0 04444444 T -0.  
C 7 H 17 B 1 O 1  
MW 128.03 MI 24.63 MA 0.0896 MD 6.18 EM 13.98 GR 5.08

METHYL DI-ISO-PROPYLBORINATE  
CA 54.14008ORGAN. LIQUIDEST D 0.8000 NO 1810.0 04444444 T -0.  
C 7 H 17 B 1 O 1  
MW 128.03 MI 24.63 MA 0.0927 MD 6.40 EM 13.98 GR 5.26

HEPTYLBORONIC ACID  
CA 52.14927ORGAN. SOLIDEST D 0.8400 NO 965.0 04444444 T 0.  
C 7 H 17 B 1 O 2  
MW 144.03 MI 25.62 MA 0.0900 MD 5.97 EM 13.98 GR 4.91

DIMETHOXY-PENTYLBORANE  
CA 54.14107ORGAN. LIQUIDEST D 0.8500 NO 1811.0 04444444 T -0.  
C 7 H 17 B 1 O 2  
MW 144.03 MI 25.62 MA 0.0911 MD 6.04 EM 13.98 GR 4.97

CALCIUM HYDRIDE-DIBORANE-PARAMETHYLAMINE  
CA 54.15030ORGAN. SOLIDICAL D 0.9346 NO 3082.0 04444444 T 59.50  
C 7 H 17 B 2 GA 1 N 1  
MW 176.94 MI 27.24 MA 0.0867 MD 5.41 EM 20.44 GR 6.50

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BIS(DICHLOROTRIFLUORIDE)-1,7-DIAMINHEPTANE  
CA 54. 8399ORGAN. UNKNOWNEST D 1.2000 NO 969.0 04444444 T -0.  
C 7 H 18 B 2 F 6 N 2  
MW 265.88 MI 35.49 MA 0.0983 MD 4.89 EM 18.71 GR 5.09

2-BUTYL-4,6-DICHLORO-1,3,5-TRIMETHYLBORAZINE  
CA 55. 3240ORGAN. LIQUIDICAL D 1.1327 NO 3088.0 04444444 T -5.00  
C 7 H 18 B 3 CL 2 N 3  
MW 247.62 MI 32.19 MA 0.0887 MD 4.96 EM 409.63 GR 112.87

DICHLORODIETHYLBORANEDIBORANE-TRIMETHYLAMINE  
CA 48. 2579ORGAN. SOLIDICAL D 1.0165 NO 3089.0 04444444 T 20.00  
C 7 H 19 B 3 CL 2 N 3  
MW 212.48 MI 30.18 MA 0.0868 MD 5.46 EM 109.50 GR 116.86

ISOMANIDIFLUOROBORANE-METHANOL  
CA 54.15228ORGAN. LIQUIDKD D 0.9473 NO 1812.0 04444444 T -0.  
C 7 H 19 B 1 F 2 O 2  
MW 184.05 MI 30.20 MA 0.0986 MD 5.89 EM 15.60 GR 4.84

BORINE-BIS(ETHYLBORANEO)PROPYL  
CA 52.19916ORGAN. LIQUIDKD D 0.7927 NO 838.0 04444444 T -0.  
C 7 H 19 B 3 N 2  
MW 142.06 MI 27.78 MA 0.0994 MD 6.39 EM 17.61 GR 5.92

2-CHLORO-4,6-DIETHYL-1,3,5-TRIMETHYLBORAZINE  
CA 55. 3240ORGAN. UNKNOWNICAL D 0.9972 NO 3090.0 04444444 T -0.  
C 7 H 19 B 3 CL 2 N 3  
MW 213.17 MI 31.99 MA 0.0901 MD 5.35 EM 215.91 GR 60.84

TRIMETHYLBORANE-BUTYLAMINE  
CA 45. 7420ORGAN. LIQUIDEST D 0.7800 NO 970.0 04444444 T 3.60  
C 7 H 20 B 1 N 1  
MW 129.06 MI 27.71 MA 0.1009 MD 7.28 EM 17.26 GR 6.28

BORANE-NEOPENTYLDIETHYLAMINE  
CA 48. 5610ORGAN. SOLIDEST D 0.7800 NO 971.0 04444444 T 14.20  
C 7 H 20 B 1 N 1  
MW 129.06 MI 27.71 MA 0.1009 MD 7.28 EM 17.26 GR 6.28

TRIMETHYLBORANE-TERTBUTYLAMINE  
CA 48. 5604ORGAN. LIQUIDEST D 0.7800 NO 972.0 04444444 T 19.30  
C 7 H 20 B 1 N 1  
MW 129.06 MI 27.71 MA 0.1009 MD 7.28 EM 17.26 GR 6.28

TRIMETHYLBORANE-DIETHYLAMINE  
CA 13. 2380ORGAN. SOLIDEST D 0.7800 NO 973.0 04444444 T 27.00  
C 7 H 20 B 1 N 1  
MW 129.06 MI 27.71 MA 0.1009 MD 7.28 EM 17.26 GR 6.28

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3-HYDROXYMETHYLBUTYLTRIPYCH-BORONOXAZOLITONE  
CA 54.24481ORGAN. LIQUIDICAL D 1.044 NO 3081.0 04444444 T -0.  
C 7 H 17 B 3 N 1 O 4  
MW 387.01 MI 25.67 MA 0.0863 MD 4.71 EM 12.86 GR 4.32

BUTYLDICHLOROBORINE-TRIMETHYLAMINE  
CA 44. 83957ORGAN. SOLIDEST D 1.0800 NO 964.0 04444444 T 75.50  
C 7 H 18 B 1 CL 2 N 1  
MW 197.06 MI 28.11 MA 0.0924 MD 5.91 EM 404.68 GR 132.98

BUTYLDIALYLBORANE-TRIMETHYLAMINE  
CA 44. 83957ORGAN. UNKNOWNEST D 1.0700 NO 967.0 04444444 T -0.  
C 7 H 18 B 1 F 2 N 1  
MW 169.05 MI 28.29 MA 0.1103 MD 7.03 EM 15.94 GR 6.22

BORON TRIFLUORIDE-11,7-DIAMINHEPTANE  
CA 54. 8399ORGAN. UNKNOWNICAL D 0.9601 NO 3083.0 04444444 T -0.  
C 7 H 18 B 1 F 3 N 2  
MW 198.06 MI 30.65 MA 0.0895 MD 5.26 EM 17.09 GR 4.99

TRIMETHYLBORANE-PYRROLIDINE  
CA 44. 8715ORGAN. SOLIDEST D 0.8500 NO 968.0 04444444 T 43.50  
C 7 H 18 B 1 N 1  
MW 127.05 MI 25.71 MA 0.1086 MD 7.25 EM 15.79 GR 6.36

TRIMETHYLSILYLMETHYLBORONITRILORIMINE  
CA 54. 0940ORGAN. UNKNOWNICAL D 0.8419 NO 268.0 04444444 T -0.  
C 7 H 18 B 1 N 1  
MW 159.14 MI 28.97 MA 0.0882 MD 5.88 EM 16.97 GR 5.42

METHYLBIS(ETHYLSILICYLBORATE  
CA 48. 4346ORGAN. UNKNOWNICAL D 1.1025 NO 3084.0 04444444 T -0.  
C 7 H 18 B 1 O 3 Si 2  
MW 217.22 MI 30.13 MA 0.0921 MD 5.50 EM 16.28 GR 4.98

BORANE-HEXYLMETHYLPHOSPHINE  
CA 44.15216ORGAN. UNKNOWNICAL D 0.8729 NO 3085.0 04444444 T -0.  
C 7 H 18 B 1 P 1  
MW 144.02 MI 25.97 MA 0.0948 MD 6.57 EM 16.56 GR 6.04

1,2-BIS(DIETHYLBORYL)PROPANE  
CA 54.12293ORGAN. LIQUIDICAL D 0.7800 NO 3086.0 04444444 T -0.  
C 7 H 20 B 2  
MW 129.86 MI 25.01 MA 0.0971 MD 6.83 EM 16.11 GR 6.11

1,3-BIS(DIETHYLBORYL)PROPANE  
CA 54.22326ORGAN. LIQUIDICAL D 0.7800 NO 3087.0 04444444 T -104.70  
C 7 H 20 B 2  
MW 129.86 MI 25.01 MA 0.0971 MD 6.83 EM 16.11 GR 6.11

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TRIMETHYLAMINE-SEC-BUTYLBORANE  
CA 54.15226ORGAN. UNKNOWNEST D 0.8000 NO 1813.0 04444444 T -0.  
C 7 H 20 B 1 N 1  
MW 129.06 MI 27.71 MA 0.1035 MD 7.47 EM 17.26 GR 6.44

DIETHYLBORANE-TRIMETHYLAMINE  
CA 54.15226ORGAN. UNKNOWNEST D 0.8000 NO 1814.0 04444444 T -0.  
C 7 H 20 B 1 N 1  
MW 129.06 MI 27.71 MA 0.1035 MD 7.47 EM 17.26 GR 6.44

TRIMETHYL BORATE-DIETHYLAMINE  
CA 47. 7357ORGAN. SOLIDICAL D 0.8562 NO 3091.0 04444444 T -0.  
C 7 H 20 B 1 N 1 O 3  
MW 177.06 MI 30.68 MA 0.0894 MD 5.82 EM 17.26 GR 5.03

METHYL BORATE-BUTYLAMINE  
CA 47. 7357ORGAN. SOLIDICAL D 0.8562 NO 3092.0 04444444 T 68.50  
C 7 H 20 B 1 N 1 O 3  
MW 177.06 MI 30.68 MA 0.0894 MD 5.82 EM 17.26 GR 5.03

BORANE-HEXYLMETHYLPHOSPHINE  
CA 44. 5469ORGAN. UNKNOWNICAL D 0.8105 NO 3093.0 04444444 T 0.50  
C 7 H 20 B 1 P 1  
MW 146.03 MI 27.97 MA 0.0935 MD 6.69 EM 18.00 GR 6.02

DIBORANE-DI-PROPYLCYANU PHOSPHITE  
CA 54. 0940ORGAN. UNKNOWNICAL D 0.9631 NO 269.0 04444444 T -0.  
C 7 H 20 B 2 N 1 O 2 P 1  
MW 202.86 MI 31.99 MA 0.0913 MD 5.72 EM 20.48 GR 5.86

BENZYLDECABORANE  
CA 54. 400ORGAN. SOLIDICAL D 1.0720 NO 3094.0 04444444 T 64.60  
C 7 H 20 B 10  
MW 212.44 MI 35.37 MA 0.1075 MD 6.08 EM 28.70 GR 8.73

METHYLBORON OXIDE-BIS(DIETHYLBORON)OXIDE  
CA 52.15511ORGAN. UNKNOWNICAL D 0.9959 NO 3095.0 04444444 T -0.  
C 7 H 21 B 5 O 4  
MW 223.34 MI 35.48 MA 0.0953 MD 5.44 EM 22.49 GR 6.04

DECABORANE-PARA-TOLUIDINE  
CA 48. 4230ORGAN. UNKNOWNICAL D 1.1295 NO 269.0 04444444 T -0.  
C 7 H 23 B 10 N 1  
MW 229.47 MI 39.44 MA 0.1169 MD 6.82 EM 31.99 GR 9.48

1/1 COPOLYMER OF DIMETHYLPHOSPHINOBORANE/1,3-TRIMETHYLENE-P,PIPRIME  
1-BIS(DIETHYLPHOSPHINO)BORANE  
CA 51. 1820ORGAN. SOLIDICAL D 1.4648 NO 244.0 04000410 T -0.  
C 7 H 24 B 3 P 3  
MW 233.85 MI 36.57 MA 0.1381 MD 9.06 EM 27.37 GR 10.33

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## P-TOLYLALDENHYDOTEETRA FLUOROBORATE COMPLEX

CA 54, 3282ORGAN, LIQUIDAL D 1.0927 NO3148.0 04444444 T -70.00  
C 8 H 9 B 1 F 4 O 1  
MW 207.98 MI 22.00 MA 0.0715 MD 2.85 EM 8.42 GR 2.67

## METHYLPHENYL(FORMYL) TETRAFLUOROBORATE

CA 51, 7317ORGAN, LIQUIDAL D 1.0927 NO3149.0 04444444 T -70.00  
C 8 H 9 B 1 F 4 O 1  
MW 207.98 MI 22.00 MA 0.0715 MD 2.85 EM 8.42 GR 2.67

## META-VINYLPHENYLBORONIC ACID

CA 54, 17327ORGAN, UNKNOWNAL D 1.0008 NO4392.0 04444444 T -0.  
C 8 H 9 B 1 O 2  
MW 147.98 MI 18.43 MA 0.0751 MD 3.67 EM 8.13 GR 3.31

## CYCLIC ETHYLENE PHENYLBORONATE

CA 54, 7968ORGAN, UNKNOWNEST D 1.0500 NO 991.0 04444444 T -0.  
C 8 H 9 B 1 O 2  
MW 147.98 MI 18.43 MA 0.0788 MD 3.85 EM 8.13 GR 3.47

## CHLORO(12-CHLOROETHOXY)-PHENYLBORINE

CA 52, 2922ORGAN, LIQUIDAL D 1.1580 NO 444.0 04444444 T -0.  
C 8 H 11 B 1 CL 2 O 1  
MW 202.89 MI 19.84 MA 0.0682 MD 3.09 EM 397.02 GR 136.49

## 4-BORONO-N-CARBAMYL-ANTHRANILIC ACID

CA 54, 1374ORGAN, SOLIDICAL D 1.0346 NO3150.0 04444444 T 351.00  
C 8 H 9 B 1 N 2 O 5  
MW 224.00 MI 23.54 MA 0.0668 MD 2.55 EM 10.29 GR 2.92

## 5,2-ACETAMIDONITROBENZENE-BORONIC ACID

CA 52, 14559ORGAN, SOLIDICAL D 1.0346 NO3151.0 04444444 T 194.50  
C 8 H 9 B 1 N 2 O 5  
MW 224.00 MI 23.54 MA 0.0668 MD 2.55 EM 10.29 GR 2.92

## 3,5-ACETAMIDONITROBENZENE-BORONIC ACID

CA 52, 14559ORGAN, UNKNOWNAL D 1.0346 NO3152.0 04444444 T -0.  
C 8 H 9 B 1 N 2 O 5  
MW 224.00 MI 23.54 MA 0.0668 MD 2.55 EM 10.29 GR 2.92

## 4,3-ACETAMIDONITROBENZENE-BORONIC ACID

CA 52, 14559ORGAN, UNKNOWNAL D 1.0346 NO3153.0 04444444 T -0.  
C 8 H 9 B 1 N 2 O 5  
MW 223.99 MI 23.54 MA 0.0651 MD 2.49 EM 10.29 GR 2.85

## 4,7-ACETAMIDONITROBENZENE-BORONIC ACID

CA 52, 14559ORGAN, SOLIDICAL D 1.0346 NO3154.0 04444444 T 172.00  
C 8 H 9 B 1 N 2 O 5  
MW 224.00 MI 23.54 MA 0.0668 MD 2.55 EM 10.29 GR 2.92

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## DI(1-CHLORO-2-ETHYLAMINO)BORINE

CA 54, 8742ORGAN, LIQUIDEST D 1.2000 NO 496.0 04444444 T -0.  
C 8 H 10 B 1 CL 2 N 1  
MW 201.91 MI 20.92 MA 0.0749 MD 3.98 EM 398.83 GR 142.77

## PYRIDINE ALLYL DICHLOROBORONITE COMPLEX

CA 51, 2537ORGAN, SOLIDICAL D 1.2657 NO3159.0 04444444 T 61.00  
C 8 H 10 B 1 CL 2 N 1 U 1  
MW 217.91 MI 21.91 MA 0.0767 MD 3.50 EM 398.83 GR 139.54

## BORON TRIFLUORIDE-METARYLENE

CA 50, 6034ORGAN, UNKNOWNAL D 1.1278 NO3160.0 04444444 T -0.  
C 8 H 10 B 1 F 3  
MW 173.99 MI 21.32 MA 0.0832 MD 3.40 EM 9.08 GR 3.55

## PARA-DIMETHYLAMINO-BENZENE-DIAZONIUM FLUOROBORATE

CA 53, 8904ORGAN, UNKNOWNAL D 1.1461 NO3161.0 04444444 T -0.  
C 8 H 10 B 1 F 4 N 3  
MW 235.01 MI 25.02 MA 0.0758 MD 2.44 EM 12.39 GR 3.64

## META-ACETAMIDOBENZENE-BORONIC ACID

CA 52, 14559ORGAN, SOLIDICAL D 1.1028 NO3162.0 04444444 T 250.00  
C 8 H 10 B 1 N 1 O 3  
MW 179.00 MI 21.49 MA 0.0798 MD 3.71 EM 9.94 GR 3.69

## PARA-ACETAMIDOBENZENE-BORONIC ACID

CA 52, 14559ORGAN, SOLIDICAL D 1.1028 NO3163.0 04444444 T 230.50  
C 8 H 10 B 1 N 1 O 3  
MW 179.00 MI 21.49 MA 0.0798 MD 3.71 EM 9.94 GR 3.69

## BENZENE-BORONIC ACID, P-FORMYL-, THIOSEMICARBAZONE

CA 54, 6034ORGAN, UNKNOWNAL D 1.1881 NO3164.0 04444444 T -0.  
C 8 H 10 B 1 N 3 O 2 S 1  
MW 223.07 MI 23.54 MA 0.0755 MD 3.15 EM 12.84 GR 4.06

## BORON TRICHLORIDE-DIMETHYLPHENYLAMINE

CA 51, 2537ORGAN, SOLIDICAL D 1.279 NO3165.0 04444444 T 146.00  
C 8 H 11 B 1 CL 3 N 1  
MW 238.37 MI 23.32 MA 0.0777 MD 3.70 EM 594.01 GR 199.04

## DICHLORO(13-CHLOROPROPYLOXY)BORINE-ANILINE

CA 51, 9476ORGAN, UNKNOWNAL D 1.2939 NO3166.0 04444444 T -0.  
C 8 H 11 B 1 CL 3 N 1 O 1  
MW 254.37 MI 24.11 MA 0.0739 MD 3.37 EM 594.01 GR 181.99

## BORON TRIFLUORIDE-N,N-DIMETHYLANILINE

CA 51, 2537ORGAN, SOLIDEST D 1.4500 NO 997.0 04444444 T 91.00  
C 8 H 11 B 1 F 3 N 1  
MW 189.00 MI 23.39 MA 0.1081 MD 5.08 EM 10.89 GR 5.03

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## P-VINYLBENZENE-BORONIC ACID

CA 54, 1413ORGAN, SOLIDEST D 1.1000 NO 993.0 04444444 T 193.00  
C 8 H 9 B 1 O 2  
MW 147.98 MI 18.43 MA 0.0825 MD 4.03 EM 8.13 GR 3.64

## ORTHO-VINYLBENZENE-BORONIC ACID

CA 54, 2548ORGAN, UNKNOWNAL D 1.0008 NO3159.0 04444444 T -0.  
C 8 H 9 B 1 O 2  
MW 147.98 MI 18.43 MA 0.0751 MD 3.67 EM 8.13 GR 3.31

## DIPHENYLDIETHYLBORANE

CA 51, 16322ORGAN, SOLIDEST D 1.1000 NO 992.0 04444444 T 129.00  
C 8 H 9 B 1 O 2  
MW 147.98 MI 18.43 MA 0.0825 MD 4.03 EM 8.13 GR 3.64

## 2-PHENYL-1,3,2-DIOXABOROLANE

CA 50, 5550ORGAN, LIQUIDEST D 1.1000 NO 996.0 04444444 T -0.  
C 8 H 9 B 1 O 2  
MW 147.98 MI 18.43 MA 0.0825 MD 4.03 EM 8.13 GR 3.64

## ETHYL O-PHENYLENE BORATE

CA 53, 21905ORGAN, LIQUIDAL D 1.1316 NO 429.0 04444444 T -0.  
C 8 H 9 B 1 O 3  
MW 163.98 MI 19.42 MA 0.0807 MD 3.74 EM 8.13 GR 3.38

## PARA-METHYL BORONOBENZOATE

CA 52, 14559ORGAN, SOLIDICAL D 1.0513 NO3156.0 04444444 T 231.50  
C 8 H 9 B 1 O 4  
MW 179.98 MI 20.41 MA 0.0718 MD 3.17 EM 8.13 GR 2.86

## 3-METHYL BORONOBENZOATE

CA 52, 14559ORGAN, UNKNOWNAL D 1.0513 NO3157.0 04444444 T -0.  
C 8 H 9 B 1 O 4  
MW 179.98 MI 20.41 MA 0.0718 MD 3.17 EM 8.13 GR 2.86

## 2-ACETAMIDOBENZENE-1,4-DIBORONIC ACID MONAMHYDRIDE

CA 52, 12436ORGAN, SOLIDICAL D 1.0770 NO3158.0 04444444 T 351.00  
C 8 H 9 B 2 N 1 O 5  
MW 204.81 MI 22.43 MA 0.0711 MD 2.85 EM 10.60 GR 3.36

## CHLOROETHYLPHENYLBORINE

CA 54, 8684ORGAN, UNKNOWNEST D 1.0400 NO 495.0 04444444 T -0.  
C 8 H 10 B 1 CL 1  
MW 152.44 MI 18.85 MA 0.0766 MD 4.11 EM 203.31 GR 83.94

## CHLOROETHYLPHENYLBORINE

CA 52, 2922ORGAN, LIQUIDAL D 1.0040 NO 415.0 04444444 T -0.  
C 8 H 10 B 1 CL 1 U 1  
MW 168.44 MI 19.64 MA 0.0705 MD 3.59 EM 203.31 GR 72.99

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## BUCON TRIFLUORIDE-(2,4,6-TRIMETHYL)PYRILONE

CA 51, 2178ORGAN, SOLIDEST D 1.4500 NO 496.0 04444444 T -0.  
C 8 H 11 B 1 F 3 N 1  
MW 189.00 MI 23.39 MA 0.1081 MD 5.08 EM 10.89 GR 5.03

## BUCON TRIFLUORIDE-N-METHYL-PARA-ANISIDINE

CA 54, 11032ORGAN, SOLIDICAL D 1.0978 NO3167.0 04444444 T -0.  
C 8 H 11 B 1 F 3 N 1 O 1  
MW 209.00 MI 24.34 MA 0.0786 MD 3.55 EM 10.90 GR 3.51

## HYDROGEN TETRAFLUOROBORATE-ETHYLBENZENE

CA 50, 6034ORGAN, UNKNOWNAL D 1.1059 NO3168.0 04444444 T -0.  
C 8 H 11 B 1 F 4  
MW 194.00 MI 23.61 MA 0.0811 MD 3.78 EM 9.89 GR 3.40

## HYDROGEN TETRAFLUOROBORATE-METARYLENE

CA 54, 3281ORGAN, LIQUIDAL D 1.1059 NO3169.0 04444444 T -55.00  
C 8 H 11 B 1 F 4  
MW 194.00 MI 23.61 MA 0.0811 MD 3.78 EM 9.89 GR 3.40

## 2,4,6-TRIMETHYL PYRILUM FLUOROBORATE

CA 53, 10073ORGAN, UNKNOWNAL D 1.1310 NO3170.0 04444444 T -0.  
C 8 H 11 B 1 F 4 O 1  
MW 210.00 MI 24.60 MA 0.0798 MD 3.57 EM 9.89 GR 3.21

## 3-UREIDO-PARA-TOLUENE-BORONIC ACID

CA 54, 1374ORGAN, SOLIDICAL D 1.0513 NO3171.0 04444444 T 351.00  
C 8 H 11 B 1 N 2 O 3  
MW 194.01 MI 23.56 MA 0.0789 MD 3.53 EM 11.76 GR 3.84

## ETHYLPHENYLBORONIC ACID

CA 54, 8684ORGAN, LIQUIDAL D 0.9514 NO 206.0 04444444 T -0.  
C 8 H 11 B 1 O 1  
MW 134.00 MI 19.44 MA 0.0831 MD 4.70 EM 9.59 GR 4.10

## DIMETHYL PHENYLBORONATE

CA 44, 10213ORGAN, LIQUIDAL D 1.0024 NO 207.0 04444444 T -0.  
C 8 H 11 B 1 O 2  
MW 150.00 MI 20.43 MA 0.0822 MD 4.43 EM 9.60 GR 3.86

## 4-ETHYLPHENYLBORONIC ACID

CA 55, 2569ORGAN, SOLIDICAL D 1.0810 NO3172.0 04444444 T 0.50  
C 8 H 11 B 1 O 2  
MW 150.00 MI 20.43 MA 0.0829 MD 4.47 EM 9.60 GR 3.90

## 2,5-DIMETHOXYPHENYLBORONIC ACID

CA 54, 8852ORGAN, SOLIDICAL D 1.0778 NO3173.0 04444444 T 95.50  
C 8 H 11 B 1 O 4  
MW 182.00 MI 22.41 MA 0.0799 MD 3.92 EM 9.60 GR 3.42

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## 2,6-DIMETHOXYPHENYLBORONIC ACID

CA 54. 88520ORGAN. SOLIDICAL D 1.0778 NO3174.0 04444444 T 102.00  
C 8 M 11 B 1 O 4  
MW 182.00 MI 22.41 NA 0.0799 MD 3.92 EM 9.80 GR 3.42

## 12,6-DIMETHOXYPHENYLDIHYDROXY BORANE

CA 51.165830ORGAN. UNKNOWCAL D 1.0778 NO3175.0 04444444 T -0.  
C 8 M 11 B 1 O 4  
MW 182.00 MI 22.41 NA 0.0799 MD 3.92 EM 9.80 GR 3.42

## BORON TRIFLUORIDE-HEXAHYDROPHthalIDE

CA 50.167830ORGAN. SOLIDEST D 1.2000 NO 999.0 04444444 T 62.00  
C 8 M 12 B 1 F 3 O 2  
MW 206.00 MI 25.30 NA 0.0879 MD 4.17 EM 10.35 GR 3.67

## DIMETHYLPHENYLAMINOBORANE

GR 240ORGAN. LIQUIDEST D 0.9500 NO1000.0 04444444 T -0.  
C 8 M 12 B 1 N 1  
MW 133.01 MI 20.52 NA 0.0883 MD 5.16 EM 11.41 GR 4.91

## SODIUM ETHYLPHENYLBORONIC ACID

CA 56. 80840ORGAN. UNKNOWCAL D 0.9837 NO3176.0 04444444 T -0.  
C 8 M 12 B 1 NA 1 O 2  
MW 173.99 MI 22.64 NA 0.0771 MD 4.09 EM 14.22 GR 4.84

## PARADIMETHYLAMINOHEXAZENEBORONIC ACID

CA 52.149550ORGAN. SOLIDEST D 1.0900 NO1001.0 04444444 T 272.50  
C 8 M 12 B 1 N 1 O 2  
MW 105.01 MI 22.50 NA 0.0862 MD 4.60 EM 11.41 GR 4.37

## NORANE-ETHYL ISOMICOTINATE

CA 52.100720ORGAN. SOLIDEST D 1.0500 NO1002.0 04444444 T 77.00  
C 8 M 12 B 1 N 1 O 2  
MW 185.01 MI 22.50 NA 0.0862 MD 4.60 EM 11.41 GR 4.37

## HEXAZENEBORONIC ACID, ANHYDRIDE WITH ETHANEBORONIC ACID

CA 53. 10090ORGAN. LIQUIDICAL D 1.0365 NO3177.0 04444444 T -0.  
C 8 M 12 B 2 O 3  
MW 177.02 MI 23.39 NA 0.0821 MD 4.21 EM 11.72 GR 4.12

## OXYBIS(DIACETOXYBORANE)

CA 51.161670ORGAN. SOLIDICAL D 1.1751 NO3178.0 04444444 T 147.50  
C 8 M 12 B 2 O 9  
MW 273.82 MI 29.33 NA 0.0758 MD 3.10 EM 11.73 GR 3.03

## BORON PYROACETATE

CA 48.112740ORGAN. UNKNOWCAL D 1.1751 NO3179.0 04444444 T -0.  
C 8 M 12 B 2 O 9  
MW 273.82 MI 29.33 NA 0.0758 MD 3.10 EM 11.73 GR 3.03

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## 3-SUBSTITUTED TRIPTYCH-BOROXAZOLINE

CA 54.246810ORGAN. SOLIDICAL D 1.0001 NO3184.0 04444444 T 155.50  
C 8 M 14 B 1 N 1 O 3  
MW 183.03 MI 25.49 NA 0.0839 MD 4.61 EM 12.88 GR 4.24

## METHYLBORATE PYRIDINE

CA 47. 79570ORGAN. SOLIDICAL D 1.0001 NO3185.0 04444444 T 79.00  
C 8 M 14 B 1 N 1 O 3  
MW 183.03 MI 25.49 NA 0.0839 MD 4.61 EM 12.88 GR 4.24

## 2,4,4,5,5-PENTAMETHYL-1,3-DIOXOLENIUM TETRAFLUOROBORATE

CA 54. 54270ORGAN. SOLIDICAL D 1.0756 NO3186.0 04444444 T 151.00  
C 8 M 15 B 1 F 4 O 2  
MW 230.03 MI 29.79 NA 0.0833 MD 4.22 EM 12.83 GR 3.61

## O-SEC-BUTYL BUTYROLACTONIUM FLUOROBORATE

CA 51.104720ORGAN. SOLIDICAL D 1.0756 NO3187.0 04444444 T 49.50  
C 8 M 15 B 1 F 4 O 2  
MW 230.03 MI 29.79 NA 0.0833 MD 4.22 EM 12.83 GR 3.61

## THIOPHENEBORONIC ACID, BIS(2-AMINO-ETHYL)ESTER

CA 52. 11360ORGAN. SOLIDICAL D 1.0397 NO3188.0 04444444 T 217.00  
C 8 M 15 B 1 N 2 O 2 S 1  
MW 214.10 MI 27.87 NA 0.0815 MD 4.39 EM 15.45 GR 4.52

## THIOPHENEBORONIC ACID, BIS(3-AMINO-ETHYL)ESTER

CA 52. 11360ORGAN. SOLIDICAL D 1.0397 NO3189.0 04444444 T 202.00  
C 8 M 15 B 1 N 2 O 2 S 1  
MW 214.10 MI 27.87 NA 0.0815 MD 4.39 EM 15.45 GR 4.52

## DIALLYLETHOXYBORANE

CA 47. 10400ORGAN. LIQUIDEST D 0.8500 NO1009.0 04444444 T -0.  
C 8 M 15 B 1 O 1  
MW 138.03 MI 23.44 NA 0.0849 MD 5.56 EM 12.53 GR 4.65

## CHLOROBIS(2-CHLOROBUTYL)BORANE

CA 54.119930ORGAN. UNKNOWEST D 1.1500 NO1010.0 04444444 T -0.  
C 8 M 16 B 1 CL 3  
MW 229.41 MI 27.05 NA 0.0817 MD 4.83 EM 596.60 GR 180.14

## BORON TRICHLORIDE-PINACOLYL ACETATE

CA 52. 19540ORGAN. UNKNOWEST D 1.1800 NO1011.0 04444444 T -0.  
C 8 M 16 B 1 CL 3 O 2  
MW 261.41 MI 29.03 NA 0.0789 MD 4.35 EM 596.60 GR 162.71

## CHLORODI(4-CHLOROBUTYL)BORANE

CA 51. 94780ORGAN. LIQUIDKNO D 1.1810 NO 208.0 04444444 T -0.  
C 8 M 16 B 1 CL 3 O 2  
MW 261.41 MI 29.03 NA 0.0789 MD 4.35 EM 596.60 GR 162.35

A 142

## ACETIC ACID, ANHYDRIDE WITH HYDROBORIC ACID

CA 53.216890ORGAN. UNKNOWCAL D 1.1751 NO3180.0 04444444 T -0.  
C 8 M 12 B 2 O 9  
MW 273.82 MI 29.33 NA 0.0758 MD 3.10 EM 11.73 GR 3.03

## (2-ACETYL-4-METHYL-2-PENTEN-2-YLOXY)DIFLUOROBORANE

CA 66. 14480ORGAN. SOLIDICAL D 1.0856 NO3181.0 04444444 T 113.25  
C 8 M 13 B 1 F 2 O 2  
MW 190.01 MI 25.01 NA 0.0861 MD 4.47 EM 11.21 GR 3.86

## 3-CYANOMETHYL TRIPTYCH-BOROXAZOLINE

CA 54.246810ORGAN. SOLIDICAL D 1.0316 NO3182.0 04444444 T 155.50  
C 8 M 13 B 1 N 2 O 3  
MW 190.01 MI 25.01 NA 0.0861 MD 4.47 EM 11.21 GR 3.86

## DIALLYLACETYLBORINATE

CA 54. 12690ORGAN. LIQUIDEST D 0.8700 NO1003.0 04444444 T -0.  
C 8 M 13 B 1 O 2  
MW 152.01 MI 22.43 NA 0.0773 MD 4.48 EM 11.06 GR 3.81

## CHLORODI(METHALLYLOXY)BORANE

CA 51. 25370ORGAN. UNKNOWEST D 0.9600 NO1004.0 04444444 T -0.  
C 8 M 14 B 1 CL 1 O 2  
MW 188.48 MI 24.63 NA 0.0758 MD 4.30 EM 206.24 GR 63.28

## BIS(3-BUTENOXY)CHLOROBORANE

CA 51.12810ORGAN. LIQUIDKNO D 0.9740 NO 64.0 04444444 T -0.  
C 8 M 14 B 1 CL 1 O 2  
MW 188.48 MI 24.63 NA 0.0767 MD 4.36 EM 206.24 GR 64.20

## NORANE-12-ISOPROPYL PYRIDINE

CA 51. 12360ORGAN. LIQUIDEST D 0.9900 NO1005.0 04444444 T 18.50  
C 8 M 14 B 1 N 1  
MW 135.03 MI 22.52 NA 0.0954 MD 5.93 EM 12.87 GR 5.46

## TRIMETHYLBORANE-PYRIDINE

CA 48. 5610ORGAN. UNKNOWEST D 0.9500 NO1006.0 04444444 T -0.  
C 8 M 14 B 1 N 1  
MW 135.03 MI 22.52 NA 0.0954 MD 5.93 EM 12.87 GR 5.46

## BORANE-DIMETHYLANILINE

CA 51.175610ORGAN. UNKNOWEST D 0.9500 NO1007.0 04444444 T -0.  
C 8 M 14 B 1 N 1  
MW 135.03 MI 22.52 NA 0.0954 MD 5.93 EM 12.87 GR 5.46

## DIMETHYL METHYLBORONATE-PYRIDINE

CA 51. 49580ORGAN. SOLIDEST D 1.0000 NO1008.0 04444444 T -0.  
C 8 M 14 B 1 N 1 O 2  
MW 167.03 MI 24.50 NA 0.0884 MD 5.05 EM 12.88 GR 4.66

A 144

## DISIPYRROLIDINOINORON MONOFUORIDE

CA 53. 3310ORGAN. UNKNOWCAL D 0.8737 NO3190.0 04444444 T -0.  
C 8 M 16 B 1 F 1 N 2  
MW 170.05 MI 26.88 NA 0.0612 MD 4.95 EM 15.49 GR 4.80

## LITHIUM TRIPHENYLHYDROBORATE

GR 20. 4850ORGAN. SOLIDICAL D 0.6177 NO3191.0 04444444 T -0.  
C 8 M 16 B 1 LI 1  
MW 299.98 MI 24.46 NA 0.0700 MD 4.58 EM 13.34 GR 3.82

## IMINODIETHYL CYCLOHEXYLBORONATE

AF36106 20570ORGAN. SOLIDICAL D 0.8445 NO4471.0 04444444 T 120.00  
C 8 M 16 B 1 N 1 O 1  
MW 153.04 MI 25.51 NA 0.0888 MD 5.32 EM 14.34 GR 4.77

## 3-METHYL TRIPTYCH-BOROXAZOLINE

CA 54.246810ORGAN. SOLIDICAL D 0.9291 NO3192.0 04444444 T 179.00  
C 8 M 16 B 1 N 1 O 3  
MW 185.04 MI 27.49 NA 0.0828 MD 4.82 EM 14.35 GR 4.52

## 3-SUBSTITUTED TRIPTYCH-BOROXAZOLINE

CA 54.246810ORGAN. SOLIDICAL D 0.8261 NO3193.0 04444444 T 144.50  
C 8 M 16 B 1 N 1 O 3  
MW 181.02 MI 25.87 NA 0.0799 MD 4.94 EM 14.31 GR 4.47

## 3-SUBSTITUTED TRIPTYCH-BOROXAZOLINE

CA 54.246810ORGAN. SOLIDICAL D 0.7599 NO3194.0 04444444 T 89.50  
C 8 M 16 B 1 N 1 O 3  
MW 201.04 MI 28.48 NA 0.0819 MD 4.60 EM 14.35 GR 4.13

## TRIS(BORONTRICHLORIDE)-PARA-DIOXANE

CA 53. 59500ORGAN. UNKNOWCAL D 1.6612 NO3195.0 04444444 T -0.  
C 8 M 16 B 3 CL 4 O 4  
MW 527.79 MI 80.15 NA 0.0734 MD 2.92 EM1766.07 GR 322.73

## 1-ISOPROPYL-3-METHYLBOROLANE

CA 54. 66880ORGAN. UNKNOWEST D 0.8000 NO1012.0 04444444 T -0.  
C 8 M 17 B 1  
MW 124.04 MI 24.45 NA 0.0950 MD 6.60 EM 14.00 GR 5.44

## 3-METHYL-1-PROPYLBOROLANE

CA 54. 66880ORGAN. UNKNOWEST D 0.8000 NO1013.0 04444444 T -0.  
C 8 M 17 B 1  
MW 124.04 MI 24.45 NA 0.0950 MD 6.60 EM 14.00 GR 5.44

## 1-BUTYLBOROLANE

CA 53. 71980ORGAN. UNKNOWEST D 0.8000 NO1014.0 04444444 T -0.  
C 8 M 17 B 1  
MW 124.04 MI 24.45 NA 0.0950 MD 6.60 EM 14.00 GR 5.44

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A 153

1,3,5,7-TETRAMETHYL-1,3,5,7-TETRABOROCANE  
CA 51.13740ORGAN. SOLIDICAL D 0.8283 NO3210.0 04144444 T 80.00  
C 8 H 20 B 4  
M 199.93 MI 30.36 MA 0.0950 MD 6.26 EM 20.37 GR 6.37

CHLORODIETHYLBORANE-DIETHYLAMINE  
CA 55.2520ORGAN. UNKNOWCAL D 0.9000 NO1049.0 04444444 T -0.  
C 8 H 21 B 1 CL 1 N 1  
M 177.54 MI 30.72 MA 0.0938 MD 6.41 EM 212.46 GR 64.87

BORANE-DIBUTYLAMINE  
CA 54.15220ORGAN. LIQUIDEST D 0.8000 NO1821.0 04444444 T 15.00  
C 8 H 22 B 2  
M 142.08 MI 29.52 MA 0.1001 MD 7.12 EM 18.01 GR 6.11

BORANE-DIISOBUTYLAMINE  
CA 54.15220ORGAN. LIQUIDEST D 0.8000 NO1822.0 04444444 T 17.00  
C 8 H 21 B 1 N 1  
M 142.08 MI 29.52 MA 0.1001 MD 7.12 EM 18.01 GR 6.11

TRIMETHYLBIS(ETHYLAMINO)BORINE  
CA 52.14910ORGAN. LIQUIDRO D 0.7965 NO 936.0 04444444 T -0.  
C 8 H 21 B 1 N 2  
M 156.09 MI 30.59 MA 0.0940 MD 6.45 EM 19.09 GR 5.87

TRIMETHYLBIS(ETHYLAMINO)BORINE  
CA 53.14110ORGAN. LIQUIDRO D 0.8390 NO 440.0 04444444 T -0.  
C 8 H 21 B 1 N 2  
M 172.09 MI 31.58 MA 0.0927 MD 6.17 EM 19.09 GR 5.61

BIS(DIETHYLAMINO)DIHYDROXYBORINE  
CA 54.12850ORGAN. UNKNOWCAL D 0.8978 NO3217.0 04444444 T -0.  
C 8 H 21 B 1 N 2 O 3  
M 204.09 MI 33.56 MA 0.0889 MD 5.56 EM 19.09 GR 5.06

BORANE-ETHYL(1,3-DIMETHYLAMINO)PHOSPHYLIDITHIOCARBANATE  
CA 54.86340ORGAN. UNKNOWCAL D 0.9857 NO3218.0 04444444 T -0.  
C 8 H 21 B 1 N 2 S 2  
M 220.21 MI 33.19 MA 0.0895 MD 5.66 EM 20.61 GR 5.56

TRIMETHYLBORANE-PENTYLAMINE  
CA 45.74200ORGAN. UNKNOWEST D 0.8500 NO1050.0 04444444 T -0.  
C 8 H 22 B 1 N 1  
M 143.09 MI 30.52 MA 0.1092 MD 7.87 EM 18.74 GR 6.71

N-METHYL-N-ETHYLPIPERIDINIUM TETRAHYDROBORATE  
CA 51.98440ORGAN. SOLIDEST D 0.9000 NO1051.0 04444444 T -0.  
C 8 H 22 B 1 N 1  
M 143.09 MI 30.52 MA 0.1156 MD 8.33 EM 18.74 GR 7.10

A 155

CALCIUM BIS(TETRAMETHYLAMINE)  
AD103. 1400ORGAN. UNKNOWCAL D 1.2914 NO4210.0 04444444 T -0.  
C 8 H 24 B 2 CA 1 U 8  
M 310.00 MI 41.92 MA 0.1052 MD 6.02 EM 24.93 GR 6.15

CALCIUM TETRAMETHOXYBORATE  
CA 52.19040ORGAN. UNKNOWCAL D 1.0643 NO3229.0 04444444 T -0.  
C 8 H 24 B 2 CA 1 U 8  
M 310.00 MI 41.92 MA 0.0867 MD 4.96 EM 24.93 GR 5.07

MAGNESIUM(II)TETRAMETHOXYBORATE  
CA 49.13810ORGAN. UNKNOWCAL D 1.2606 NO3227.0 04444444 T -0.  
C 8 H 24 B 2 MG 1 U 8  
M 294.26 MI 41.96 MA 0.1072 MD 6.14 EM 21.07 GR 5.44

DIMERIC DIETHYLAMINOBORINE  
CA 52.10880ORGAN. SOLIDEST D 0.8500 NO1053.0 04004444 T 47.00  
C 8 H 24 B 2 N 2  
M 169.94 MI 34.56 MA 0.1041 MD 7.23 EM 27.68 GR 6.83

TRIMETHYLBIS(DIETHYLAMINO)BORANE  
NACH 31240ORGAN. LIQUIDICAL D 0.7943 NO3228.0 04444444 T -0.  
C 8 H 24 B 2 N 4  
M 197.45 MI 36.70 MA 0.0887 MD 5.80 EM 24.84 GR 6.00

BIS(DIETHYL ISOPROPYLPHOSPHINO)BORINE  
AD151. 1820ORGAN. UNKNOWCAL D 0.9058 NO4211.0 04444444 T -0.  
C 8 H 24 B 2 P 2  
M 203.87 MI 35.08 MA 0.0939 MD 6.42 EM 24.17 GR 6.47

1,7-BORON TRIFLUORIDE-BIS(DIETHYLAMINE)SULFONIDE  
CA 48.50110ORGAN. UNKNOWCAL D 1.1918 NO2772.0 04444444 T -0.  
C 8 H 24 B 3 F 9 N 4 O 1 S 1  
M 427.83 MI 51.57 MA 0.0865 MD 4.03 EM 27.66 GR 4.64

TETRAETHYLAMMONIUM PENTABORATE  
CA 54.20690ORGAN. SOLIDICAL D 1.1225 NO3229.0 04444444 T -0.  
C 8 H 24 B 5 N 1 U 10  
M 348.39 MI 46.30 MA 0.0899 MD 4.66 EM 25.79 GR 5.01

2,2,4,4,6,6,6-HEPTACHLORO-1,1,3,3,5,5,7,7-OCTAFETHYL-TETRAHYDROPHOSPHATE  
TETRABOROCANE  
NACH 57. 1260ORGAN. SOLIDICAL D 1.7775 NO3231.0 04444444 T -0.  
C 8 H 25 B 4 CL 7 P 4  
M 516.67 MI 49.08 MA 0.0979 MD 4.49 EM 392.45 GR 277.79

TETRAETHYLPENTABORANE  
CA 54.12970ORGAN. UNKNOWCAL D 0.8952 NO3281.0 04444444 T -0.  
C 8 H 25 B 5  
M 175.34 MI 36.33 MA 0.1117 MD 7.69 EM 25.43 GR 7.82

A 156

BORANE-BUTYLDIETHYLAMINE  
CA 51.14940ORGAN. SOLIDEST D 0.8900 NO1052.0 04444444 T -32.50  
C 8 H 22 B 1 N 1  
M 143.09 MI 30.52 MA 0.1092 MD 7.87 EM 18.74 GR 6.71

TETRAETHYLDIBORANE  
CA 55.34340ORGAN. LIQUIDICAL D 0.7306 NO3219.0 04444444 T -0.  
C 8 H 22 B 2  
M 139.90 MI 30.42 MA 0.0957 MD 6.92 EM 19.06 GR 5.99

1,2-DI-N-BUTYLDIBORANE  
CA 50.24190ORGAN. UNKNOWCAL D 0.7306 NO3220.0 04444444 T -0.  
C 8 H 22 B 2  
M 139.90 MI 30.42 MA 0.0957 MD 6.92 EM 19.06 GR 5.99

BIS(DICHLOROMETHYLENEBORINE)-BIS(DIETHYLAMINE)  
PB 1.17820ORGAN. SOLIDICAL D 1.1800 NO3222.0 04444444 T -0.  
C 8 H 22 B 2 CL 4 N 2  
M 309.75 MI 37.36 MA 0.0857 MD 5.05 EM 799.00 GR 183.34

BIS(DIETHYLPHOSPHINO)DIETHYLBORANE  
CA 54.24400ORGAN. UNKNOWCAL D 1.1165 NO3223.0 04444444 T -0.  
C 8 H 22 B 2 P 4 N 2  
M 277.85 MI 38.24 MA 0.0926 MD 5.32 EM 23.00 GR 5.57

BIS(DIETHYLAMINO)DIHYDROXYBORONOXIDE  
CA 54.12850ORGAN. UNKNOWCAL D 0.9074 NO3221.0 04444444 T -0.  
C 8 H 22 B 2 N 2 O 3  
M 215.92 MI 35.53 MA 0.0849 MD 5.37 EM 21.22 GR 5.37

TETRAETHYLAMMONIUM TETRAHYDROBORATE  
CA 50.81490ORGAN. SOLIDICAL D 0.9270 NO 93.0 04444444 T -0.  
C 8 H 24 B 1 N 1  
M 145.11 MI 32.52 MA 0.1251 MD 9.24 EM 20.21 GR 7.78

BERYLLIUM TETRAMETHOXYBORATE  
CA 49.13810ORGAN. UNKNOWCAL D 1.0066 NO3224.0 04444444 T -0.  
C 8 H 24 B 2 BE 1 O 8  
M 278.93 MI 41.41 MA 0.0900 MD 5.22 EM 20.60 GR 4.48

CALCIUM TETRAMETHYLBORATE  
AD126. 2380ORGAN. SOLIDICAL D 0.9855 NO4454.0 04444444 T -0.  
C 8 H 24 B 2 CA 1  
M 182.00 MI 34.00 MA 0.1109 MD 7.83 EM 24.52 GR 8.00

CALCIUM BOROXYDIDE-TETRAHYDROFURAN  
CA 53.15900ORGAN. SOLIDICAL D 1.0780 NO3226.0 04444444 T -0.  
C 8 H 24 B 2 CA 1 U 2  
M 214.00 MI 35.98 MA 0.1097 MD 7.28 EM 24.52 GR 7.44

A 156

DIETHYLAMINODIBORANE-DIETHYLAMINE  
CA 52.10880ORGAN. UNKNOWEST D 0.8500 NO1054.0 04444444 T -0.  
C 8 H 26 B 2 N 2  
M 171.95 MI 36.56 MA 0.1089 MD 7.74 EM 24.15 GR 7.19

TRIMETHYLBORINE-ETHYLENE DIAMINE  
CA 49.12720ORGAN. LIQUIDEST D 0.8500 NO1055.0 04444444 T 139.00  
C 8 H 26 B 2 N 2  
M 171.95 MI 36.56 MA 0.1089 MD 7.74 EM 24.15 GR 7.19

BIS(DICHLORODIMETHYLPHOSPHINO)BORINE-BIS(DICHLORODIMETHYLPHOSPHINO)BORINE  
NACH 42. 0280ORGAN. UNKNOWCAL D 1.6871 NO4212.0 04444444 T -0.  
C 8 H 26 B 4 CL 6 P 4  
M 502.22 MI 48.88 MA 0.0989 MD 5.26 EM 1198.74 GR 242.56

HEXACHLORO-1,1,3,3,5,5,7,7-OCTAFETHYL-TETRAHYDROPHOSPHATE  
NACH 57. 1260ORGAN. SOLIDICAL D 1.6871 NO3232.0 04444444 T 321.50  
C 8 H 26 B 4 CL 6 P 4  
M 502.22 MI 48.88 MA 0.0989 MD 5.26 EM 1198.74 GR 242.56

CALCIUM DIBORATE-BIS(DIETHYLETHENE)  
NACH 44.13110ORGAN. UNKNOWCAL D 1.0717 NO4280.0 04114444 T -0.  
C 8 H 28 B 2 CA 1 O 2  
M 210.03 MI 39.98 MA 0.1164 MD 8.29 EM 27.45 GR 8.13

TETRAETHYLBOROCANE  
CA 54.12970ORGAN. UNKNOWCAL D 0.8952 NO3233.0 04444444 T -0.  
C 8 H 30 B 10  
M 234.53 MI 46.18 MA 0.1147 MD 7.45 EM 36.06 GR 8.96

DECYLDECABORANE  
CA 53.13040ORGAN. LIQUIDICAL D 0.9672 NO3234.0 04444444 T -0.  
C 8 H 30 B 10  
M 234.53 MI 46.18 MA 0.1147 MD 7.45 EM 36.06 GR 8.96

PENTABORON HYDROGEN-BIS(DIETHYLAMINE)  
CA 52.10880ORGAN. LIQUIDRO D 0.8040 NO 470.0 04144444 T -0.  
C 8 H 31 B 5 N 2  
M 204.45 MI 44.47 MA 0.1028 MD 7.17 EM 31.94 GR 7.40

TETRAKIS(DIETHYLPHOSPHINO)BORINE-TETRAKIS(AMMONIA)  
CA 51.13740ORGAN. UNKNOWCAL D 0.8212 NO3239.0 04444444 T -0.  
C 8 H 32 B 4 N 4  
M 227.66 MI 46.64 MA 0.1013 MD 6.45 EM 33.47 GR 7.28

DIMETHYLPHOSPHINOBORINE TETRAKIS  
AD142. 0280ORGAN. UNKNOWCAL D 1.0856 NO4213.0 04444444 T -0.  
C 8 H 32 B 4 P 4  
M 295.52 MI 47.68 MA 0.1095 MD 7.08 EM 36.47 GR 8.07



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A 161

ETHYL P-BORONOBENZOATE  
CA 52.1452ORGAN. SOLIDICAL D 1.1304 NO3122.0 04444444 T 160.00  
C 9 H 11 B 1 O 4  
M 194.01 MI 23.22 MA 0.0815 MD 3.86 EM 9.62 GR 3.37

CHLOROPHENYLPROPYLBORINE  
CA 54. 8644ORGAN. LIQUIDKNO D 1.0274 NO 459.0 04444444 T -0.  
C 9 H 12 B 1 CL 1  
M 166.47 MI 21.46 MA 0.0798 MD 4.46 EM 204.79 GR 76.13

CHLORODISOPROPYLBORINE  
CA 52. 292ORGAN. LIQUIDICAL D 1.0220 NO 441.0 04444444 T -0.  
C 9 H 12 B 1 CL 1  
M 182.47 MI 22.45 MA 0.0757 MD 4.03 EM 204.79 GR 69.09

HYDROGEN TETRAFLUOROBORATE-MESITYLENE-2-D  
CA 54. 3281ORGAN. LIQUIDICAL D 1.0616 NO3123.0 04444444 T -0.  
C 9 H 12 B 1 O 1 F 4  
M 209.03 MI 26.30 MA 0.0809 MD 3.98 EM 10.64 GR 3.25

2-N-METHYLANILINO-1,3,2-DIOXABENZOOLANE  
CA 51.2010ORGAN. UNKNOWEST D 1.0500 NO1066.0 04444444 T -0.  
C 9 H 12 B 1 N 1 O 2  
M 177.02 MI 23.31 MA 0.0833 MD 4.29 EM 11.43 GR 4.08

ETHYL METABORONOCARBANILATE  
CA 52.1092ORGAN. SOLIDICAL D 1.0782 NO3124.0 04444444 T 202.50  
C 9 H 12 B 1 N 1 O  
M 209.02 MI 25.29 MA 0.0786 MD 3.73 EM 11.43 GR 3.55

3-IPARA-BUNONOPHENYLIANILINE  
CA 52.1092ORGAN. SOLIDICAL D 1.0782 NO3239.0 04444444 T 287.50  
C 9 H 12 B 1 N 1 O 4  
M 209.02 MI 25.29 MA 0.0786 MD 3.73 EM 11.43 GR 3.55

TRIS(2-CYANOETHYL)BORANE  
CA 45. 1843ORGAN. SOLIDEST D 0.9500 NO1067.0 04444444 T -0.  
C 9 H 12 B 1 N 3  
M 173.04 MI 23.47 MA 0.0776 MD 3.97 EM 13.58 GR 4.49

TRIS(2-CYANOETHYL)BORATE  
CA 53.1844ORGAN. UNKNOWEST D 1.1055 NO3240.0 04444444 T -0.  
C 9 H 12 B 1 N 3 O 3  
M 221.05 MI 26.44 MA 0.076 MD 3.45 EM 13.58 GR 3.90

POLYMER FROM BORIC ACID AND POLY(ETHYLENE DIISOCYANATE)  
CA 54.2342ORGAN. POLYMERICAL D 1.1114 NO4308.0 04444444 T 110.70  
C 9 H 12 B 2 N 6  
M 225.88 MI 27.65 MA 0.0819 MD 3.56 EM 18.21 GR 5.40

A 163

4-ETHOXY-2,6-DIMETHYLPYRILIUM FLUOROBORATE  
CA 54. 3427ORGAN. SOLIDICAL D 1.1049 NO3247.0 04444444 T 87.50  
C 9 H 13 B 1 F 4 O 2  
M 240.02 MI 28.40 MA 0.0787 MD 3.60 EM 11.38 GR 3.15

1,3-DIMETHYLO-2-PROPYL-2H-1,3,2-BENZODIAZABENZOLE  
CA 54. 1503ORGAN. SOLIDEST D 0.9600 NO1072.0 04444444 T 93.00  
C 9 H 13 B 1 N 2  
M 160.04 MI 23.40 MA 0.0845 MD 4.70 EM 13.24 GR 4.78

PHENYLPROPYLBORONIC ACID  
CA 54. 8684ORGAN. LIQUIDKNO D 0.9429 NO 222.0 04444444 T -0.  
C 9 H 13 B 1 O 1  
M 148.02 MI 22.25 MA 0.0854 MD 4.99 EM 11.08 GR 4.25

DIMETHOXY-D-TOLYLBORANE  
CA 49.1021ORGAN. LIQUIDKNO D 0.9798 NO 216.0 04444444 T -0.  
C 9 H 13 B 1 O 2  
M 164.02 MI 23.24 MA 0.0832 MD 4.68 EM 11.08 GR 3.99

DIMETHOXY-M-TOLYLBORANE  
CA 49.1021ORGAN. LIQUIDKNO D 0.9846 NO 217.0 04444444 T -0.  
C 9 H 13 B 1 O 2  
M 164.02 MI 23.24 MA 0.0840 MD 4.70 EM 11.08 GR 4.01

DIMETHOXY-P-TOLYLBORANE  
CA 49.1021ORGAN. LIQUIDKNO D 0.9860 NO 218.0 04444444 T -0.  
C 9 H 13 B 1 O 2  
M 164.02 MI 23.24 MA 0.0841 MD 4.71 EM 11.08 GR 4.01

MESITYLENEBROMONIC ACID  
CA 53. 7065ORGAN. SOLIDEST D 1.0000 NO1073.0 04444444 T 195.00  
C 9 H 13 B 1 O 2  
M 164.02 MI 23.24 MA 0.0833 MD 4.77 EM 11.08 GR 4.07

DIMETHYL TOLYLBORONATE  
CA 53. 8035ORGAN. SOLIDEST D 0.9800 NO1074.0 04444444 T 170.50  
C 9 H 13 B 1 O 2  
M 164.02 MI 23.24 MA 0.0836 MD 4.68 EM 11.08 GR 3.99

BENZYLIDIMETHOXYBORANE  
MACH. 3332ORGAN. SOLIDEST D 0.9800 NO1075.0 04444444 T -0.  
C 9 H 13 B 1 O 2  
M 164.02 MI 23.24 MA 0.0836 MD 4.68 EM 11.08 GR 3.79

MULTICHLOROBORANE-PYRIDINE  
CA 50.1260ORGAN. SOLIDEST D 1.1000 NO1076.0 04444444 T -0.  
C 9 H 13 B 1 CL 2 N 1  
M 217.95 MI 25.73 MA 0.0782 MD 4.28 EM 401.78 GR 122.14

A 162

CHLORODIBUTOXY(2-PYRLOYL)BORINE  
CA 53.1412ORGAN. SOLIDICAL D 1.0528 NO3241.0 04444444 T -0.  
C 9 H 13 B 1 CL 1 N 1 O 1  
M 197.49 MI 24.32 MA 0.0787 MD 4.17 EM 206.60 GR 68.34

BORON TRICHLORIDE-DIMETHYLBENZYLAMINE  
MACH. 3383ORGAN. SOLIDICAL D 1.2154 NO3242.0 04014441 T -0.  
C 9 H 13 B 1 CL 3 N 1  
M 252.40 MI 25.93 MA 0.0792 MD 3.77 EM 595.49 GR 172.72

DICHLORO(4-CHLOROBUTANOXY)BORINE-PYRIDINE  
CA 50. 7720ORGAN. UNKNOWEST D 1.2317 NO3243.0 04444444 T -0.  
C 9 H 13 B 1 CL 3 N 1 O 1  
M 268.40 MI 26.92 MA 0.0764 MD 3.59 EM 595.50 GR 164.60

CHLOROBIS(2-CHLOROETHANOXY)BORINE-PYRIDINE  
CA 50. 7720ORGAN. UNKNOWEST D 1.2465 NO3244.0 04444444 T -0.  
C 9 H 13 B 1 CL 3 N 1 O 2  
M 284.40 MI 27.91 MA 0.0737 MD 3.43 EM 595.50 GR 157.21

BORON TRIFLUORIDE-(2-TERTBUTYL)ANILINE  
CA 48. 3570ORGAN. UNKNOWEST D 1.3000 NO1068.0 04444444 T -0.  
C 9 H 13 B 1 F 3 N 1  
M 203.03 MI 26.20 MA 0.1166 MD 5.79 EM 12.38 GR 5.51

BORON TRIFLUORIDE-METHYLANILINOTOLUENE  
MACH. 3721ORGAN. SOLIDEST D 1.3000 NO1069.0 04444444 T -0.  
C 9 H 13 B 1 F 3 N 1  
M 203.03 MI 26.20 MA 0.1166 MD 5.79 EM 12.38 GR 5.51

NORON TRIFLUORIDE-N,N-DIMETHYLBENZYLAMINE  
CA 52. 6621ORGAN. UNKNOWEST D 1.3000 NO1070.0 04444444 T -0.  
C 9 H 13 B 1 F 3 N 1  
M 203.03 MI 26.20 MA 0.1166 MD 5.79 EM 12.38 GR 5.51

BORON TRIFLUORIDE-N-ETHYL-N-METHYLANILINE  
CA 54.11032ORGAN. UNKNOWEST D 1.3000 NO1071.0 04444444 T -0.  
C 9 H 13 B 1 F 3 N 1  
M 203.03 MI 26.20 MA 0.1166 MD 5.79 EM 12.38 GR 5.51

HYDROGEN TETRAFLUOROBORATE-MESITYLENE  
CA 54. 3281ORGAN. LIQUIDICAL D 1.0574 NO3245.0 04444444 T -15.00  
C 9 H 13 B 1 F 4 O 1  
M 208.02 MI 26.42 MA 0.0809 MD 3.98 EM 11.37 GR 3.48

PARA-ETHYLTOLYL TETRAFLUOROBORATE COMPLEX  
CA 54. 3282ORGAN. LIQUIDICAL D 1.0574 NO3246.0 04444444 T -80.00  
C 9 H 13 B 1 F 4  
M 208.02 MI 26.42 MA 0.0809 MD 3.98 EM 11.37 GR 3.48

A 164

N-TRIS(2-CHLOROVINYLBORONYL)PIPERIDINE  
CA 46. 2995ORGAN. LIQUIDICAL D 1.0770 NO 219.0 04444444 T -0.  
C 9 H 14 B 1 CL 2 N 1  
M 217.45 MI 25.73 MA 0.0766 MD 4.17 EM 401.78 GR 119.39

MUTOXYDICHLOROBORINE-PYRIDINE  
CA 54. 7982ORGAN. UNKNOWEST D 1.2022 NO3240.0 04444444 T -0.  
C 9 H 14 B 1 CL 2 N 1 O 1  
M 233.95 MI 26.77 MA 0.0827 MD 4.33 EM 401.78 GR 124.39

BUTYLDIFLUOROBORINE  
CA 50.1260ORGAN. LIQUIDKNO D 1.0750 NO 220.0 04444444 T -0.  
C 9 H 14 B 1 F 2 N 1  
M 185.04 MI 25.41 MA 0.0907 MD 4.90 EM 13.04 GR 4.56

TRIMETHYLBENZYLAMMONIUM TETRAFLUOROBORATE  
CA 51.1374ORGAN. UNKNOWEST D 1.1096 NO3247.0 04444444 T -0.  
C 9 H 14 B 1 F 4 N 1  
M 223.04 MI 26.49 MA 0.0854 MD 4.20 EM 13.19 GR 3.95

DIMETHYLBENZYLAMMONIUM BORONIC ACID  
CA 44. 8742ORGAN. UNKNOWEST D 0.9000 NO1077.0 04444444 T -0.  
C 9 H 14 B 1 N 1  
M 167.04 MI 23.33 MA 0.0860 MD 5.16 EM 12.89 GR 4.75

SODIUM PHENYLPROPYL BORONIC ACID  
CA 54. 8684ORGAN. SOLIDICAL D 1.0335 NO3250.0 04444444 T -0.  
C 9 H 14 B 1 N 1 O 2  
M 188.02 MI 25.45 MA 0.0843 MD 4.64 EM 15.71 GR 5.20

POLYMERIC PHENYLIMETHYLPHOSPHINODIMETHYLBORINE  
CA 54.1540ORGAN. POLYMERICAL D 1.0530 NO4140.0 04444444 T -0.  
C 9 H 14 B 1 P 1  
M 164.01 MI 23.59 MA 0.0912 MD 5.41 EM 13.63 GR 5.27

BENZYL-ETHYLENE PHOSPHINE-BORANE COMPLEX  
CA 54.1521ORGAN. UNKNOWEST D 1.0530 NO3251.0 04444444 T -0.  
C 9 H 14 B 1 P 1  
M 164.01 MI 23.59 MA 0.0912 MD 5.41 EM 13.63 GR 5.27

CHLOROBORANE  
CA 53. 5119ORGAN. UNKNOWEST D 1.1778 NO3252.0 04444444 T -0.  
C 9 H 14 B 3 N 1 O 5  
M 248.08 MI 30.72 MA 0.0862 MD 3.99 EM 15.68 GR 4.47

TRIALKYLBORINE  
CA 54. 1480ORGAN. LIQUIDKNO D 0.7178 NO 223.0 04144411 T -0.  
C 9 H 15 B 1  
M 136.04 MI 23.26 MA 0.0750 MD 4.84 EM 12.54 GR 4.05

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N,N,N-TRI(2-PROPYL)-8,10,9-TRICHLOROSULFATINE
CA 52. 99820RGAN.UNKNOHCAL D 1.1382 NO3265.0 04614444 F -0.
C 9 H 21 R 3CL 3 N 3
MW 310.12 MI 30.01 NA 0.0819 MD 4.63 EM 606.31 GR 133.79

TRIPROPYLBOROXIN
JACS 79. 3170RGAN.LIQUIDMO D 0.8746 MO 228.0 04444444 F -0.
C 9 H 21 B 3 O 3
MW 203.73 MI 34.17 MA 0.0858 MD 5.27 EM 19.73 GR 4.96

TRIISOPROPYLSILOXIN
JACS 79. 3170RGAN.LIQUIDMO D 0.8938 MO 229.0 04444444 F -0.
C 9 H 21 Si 3 O 3
MW 209.73 MI 34.17 MA 0.0860 MU 5.16 EM 19.73 GR 4.85

TRIPROPYLBOROXIN
CA 94. 3201ORGAN.UNKNOWEST D 1.0500 NO1103.0 04444444 F -0.
C 9 H 21 B 3 O 3
MW 297.73 MI 37.14 MA 0.0911 MD 5.13 EM 19.74 GR 4.84

TRIISOPROPYLBOROXIN
CA 94. 3201ORGAN. SOLIDEST D 1.0500 NO1104.0 04444444 F 53.00
C 9 H 21 B 3 O 3
MW 257.73 MI 37.14 NA 0.0911 MD 5.15 EM 19.74 GR 4.84

DIHONON TRIISOPROPYLHYDROBORATE
CA 52.99820RGAN.UNKNOWEST D 1.0500 NO1105.0 04444444 F -0.
C 9 H 21 B 3 O 6
MW 257.73 MI 37.14 NA 0.0911 MD 5.15 EM 19.74 GR 4.84

LITHIUM TRIISOPROPYLHYDROBORATE
CA 44.1216ORGAN.UNKNOWCAL D 0.8729 NO3266.0 04444444 F -0.
C 9 H 22 B 3 Li 1 O 3
MW 196.03 MI 34.24 NA 0.0918 MD 5.90 EM 17.76 GR 4.76

SODIUM TRIISOPROPYLHYDROBORATE
40122. 4008ORGAN. SOLIDCAL D 0.7521 NO4475.0 04444414 F -0.
C 9 H 22 B 3 Na 1
MW 164.99 MI 31.47 NA 0.0869 MD 6.07 EM 21.38 GR 5.96

SODIUM TRIISOPROPYLHYDROBORATE
CA 49.1216ORGAN.UNKNOWCAL D 0.9152 NO3267.0 04444444 F -0.
C 9 H 22 B 3 Na 1 U 3
MW 212.09 MI 34.44 NA 0.0895 MD 5.72 EM 21.38 GR 5.61

PIS(ETHYLAMINO)ISOPENTYLBUNINE
CA 53. 3170RGAN.LIQUIDMO D 0.8040 MD 438.0 04444444 F -0.
C 9 H 23 B 3 N 3
MW 170.82 MI 31.40 NA 0.0491 MD 6.55 EM 20.37 GR 5.86

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BORANE-TRIPROPYLBORINE
  CA 54.13228ORGAN.LIQUIDEST D 0.8000 NO1827.0 04444444 F -0.00
  C 9 H 21 B 1 M 1
  MW 156.09 MI 30.33 MA 0.0948 MD 6.57 EM 18.03 GR 5.64

BUTYL ETHYLPROPYLBORINATE
  CA 54.13038ORGAN.LIQUIDORD D 0.7748 NO1743.0 04444444 F -0.
  C 9 H 21 B 1 M 1
  MW 156.09 MI 30.25 MA 0.0904 MD 6.28 EM 18.93 GR 5.07

ISOPROPYL DIISOBUTYLBORINATE
  CA 54.10006ORGAN.LIQUIDEST D 0.7700 NO1826.0 04444444 F -0.
  C 9 H 21 B 1 O 1
  MW 156.09 MI 30.25 MA 0.0899 MD 6.24 EM 18.95 GR 5.04

METHYL DIISOBUTYLBORINATE
  ADH 44. 0230ORGAN.LIQUIDCAL D 0.7714 NO6474.0 04414414 F -0.
  C 9 H 21 B 1 O 1
  MW 156.09 MI 30.25 MA 0.0901 MD 6.25 EM 18.95 GR 5.05

NONYLBORONIC ACID
  CA 54. 6317ORGAN.UNKNOWNEST D 0.9500 NO1101.0 04444444 F -0.
  C 9 H 21 B 1 O 2
  MW 172.09 MI 31.24 MA 0.1039 MD 6.98 EM 16.95 GR 5.64

TRIPROPYL BORATE
  CA 44. 7650ORGAN.LIQUIDAND D 0.8334 NO 80.0 04440440 F -0.
  C 9 H 21 B 1 O 3
  MW 188.09 MI 32.23 MA 0.0883 MD 5.75 EM 16.95 GR 4.64

ISOPROPYL BORATE
  CA 51. 1877ORGAN.LIQUIDEST D 0.9000 NO1102.0 04444444 F -0.
  C 9 H 21 B 1 O 3
  MW 188.09 MI 32.23 MA 0.0929 MD 6.05 EM 16.95 GR 4.89

TRIS(1-METHOXYETHYL)BORATE
  CA 53. 5782UNORGAN. SOLIDICAL D 0.9570 NO3264.0 04444444 F -0.
  C 9 H 21 B 1 O 5
  MW 236.09 MI 35.20 MA 0.0859 MD 5.13 EM 16.96 GR 4.14

PROPYL DIISOPROPYLBORINATE
  CA 53.15959ORGAN.LIQUIDKNO D 0.8281 NO 864.0 04114444 F -0.
  C 9 H 21 B 1 O 3
  MW 177.19 MI 30.56 MA 0.0881 MD 6.06 EM 17.71 GR 5.11

TRIPROPYL TRIPHOSPHATE
  CA 54.16337ORGAN.LIQUIDKNO D 0.94814 NO1828.0 04444444 F -0.
  C 9 H 21 P 3 O 5
  MW 250.20 MI 35.16 MA 0.0731 MD 5.25 EM 15.22 GR 4.81

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N-DEETHYLPIPERIDINIUM TETRAHYDROBORATE										
CA	91.	5840	ORGAN.	UNKNOWN	DEST	D	0.9000	NO1106.0	0 04444444	T -0.
C	9	M	24	B	1	N	1			
Mn	157.12	Ml	33.33	Ma	0.1022	HD		7.28	EM	20.23 GR 6.98
N-BUTYLDIMETHYLBORANE-TRIMETHYLAMINE										
CA	49.	5498	ORGAN.	LIQUID	DEST	D	0.8000	NO1107.0	0 04444444	T -0.
C	9	M	24	B	1	N	1			
Mn	157.12	Ml	33.33	Ma	0.1022	HD		7.36	EM	20.23 GR 6.20
TRIMETHYLBORANE-BUTYLDIMETHYLAMINE										
CA	48.	5010	ORGAN.	LIQUID	DEST	D	0.8700	NO1108.0	0 04444444	T -17.70
C	9	M	24	B	1	N	1			
Mn	157.12	Ml	33.33	Ma	0.1022	HD		7.36	EM	20.23 GR 6.20
TRIMETHYLBORANE-HEXYLAMINE										
CA	49.	7420	ORGAN.	UNKNOWN	DEST	D	0.8000	NO1109.0	0 04444444	T -0.
C	9	M	24	B	1	N	1			
Mn	157.12	Ml	33.33	Ma	0.1022	HD		7.36	EM	20.23 GR 6.20
TRIMETHYLBORANE-SEC-BUTYLAMINE										
CA	48.	5800	ORGAN.	LIQUID	DEST	D	0.8000	NO1110.0	0 04444444	T +70.00
C	9	M	24	B	1	N	1			
Mn	157.12	Ml	33.33	Ma	0.1022	HD		7.36	EM	20.23 GR 6.20
TRIMETHYLBORANE-TRIMETHYLAMINE										
CA	49.	8634	ORGAN.	LIQUID	DEST	D	0.8000	NO1111.0	0 04444444	T -19.50
C	9	M	24	B	1	N	1			
Mn	157.12	Ml	33.33	Ma	0.1022	HD		7.36	EM	20.23 GR 6.20
TRIMETHYLBORANE-TRIMETHYLAMINE										
GM	139.	2380	ORGAN.	LIQUID	DEST	D	0.8000	NO1112.0	0 04444444	T +45.00
C	9	M	24	B	1	N	1			
Mn	157.12	Ml	33.33	Ma	0.1022	HD		7.36	EM	20.23 GR 6.20
BORANE-TRIPROPYLAMINE										
CA	54.	8634	ORGAN.	LIQUID	DEST	D	0.8000	NO1113.0	0 04444444	T -0.
C	9	M	24	B	1	N	1			
Mn	157.12	Ml	33.33	Ma	0.1022	HD		7.36	EM	20.23 GR 6.20
TRIMETHYLBORANE-AMMONIA										
GM	139.	2380	ORGAN.	LIQUID	DEST	D	0.8000	NO1114.0	0 04444444	T -26.00
C	9	M	24	B	1	N	1			
Mn	157.12	Ml	33.33	Ma	0.1022	HD		7.36	EM	20.23 GR 6.20
TRIMETHYLBORANE-TRIMETHYLAMINE										
CA	47.	3930	ORGAN.	SOLID	DEST	D	0.8484	NO3208.0	0 04444444	T -0.
C	9	M	24	B	1	N	1			
Mn	205.12	Ml	30.30	Ma	0.0904	HD		5.98	EM	20.23 GR 5.04

A 173

IMETHOXYBORANE-DIPROPYLAMINE  
CA 47. 7357ORGAN. SOLIDICAL D 0.8484 NO3269.0 04444444 T -0.  
C 9 H 24 B 1 M 1 O 3  
Mn 205.12 MI 36.30 MA 0.0904 MD 5.98 EM 20.23 GR 5.04

IMISOPROPYLARINOBIORANE  
CA 54. 8378ORGAN. UNKNOWNEST D 0.8400 NO1119.0 04444444 T -0.  
C 9 H 24 B 1 M 3  
Mn 109.13 MI 35.47 MA 0.0989 MD 6.56 EM 22.39 GR 6.12

BORANE-TRIPHOSPHORANE  
AD252. 0940ORGAN. UNKNOWNICAL D 0.9240 NO4271.0 04444444 T -0.  
C 9 H 24 B 1 O 3 P 1  
Mn 222.09 MI 36.36 MA 0.0916 MD 6.01 EM 20.98 GR 5.26

TRISOPROPYL PHOSPHITE BORINE  
CA 55. 3418ORGAN. UNKNOWNICAL D 0.9240 NO3270.0 04444444 T -0.  
C 9 H 24 B 1 O 3 P 1  
Mn 222.09 MI 36.56 MA 0.0914 MD 6.01 EM 20.98 GR 5.26

BORANE-ETHYLEPTYLPHOSPHINE  
CA 56. 3465ORGAN. UNKNOWNICAL D 0.8092 NO3271.0 04444444 T -0.  
C 9 H 24 B 1 P 1  
Mn 174.09 MI 33.59 MA 0.0940 MD 6.72 EM 20.97 GR 5.87

BORANE-METHYLOCTYLPHOSPHINE  
CA 54. 5465ORGAN. UNKNOWNICAL D 0.8092 NO3272.0 04444444 T -0.  
C 9 H 24 B 1 P 1  
Mn 174.09 MI 33.59 MA 0.0940 MD 6.72 EM 20.97 GR 5.87

BORANE-TRIPHOSPHORANE  
CA 47. 6299ORGAN. LIQUIDICAL D 0.8092 NO3273.0 04444444 T 11.00  
C 9 H 24 B 1 P 1  
Mn 174.09 MI 33.59 MA 0.0940 MD 6.72 EM 20.97 GR 5.87

TRIMETHYLSILYL ETHYLPHOSPHINO-DIETHYL BORINE  
AD277. 6930ORGAN. SOLIDICAL D 0.9059 NO4476.0 04444444 T -0.  
C 9 H 24 B 1 P 1 Si 1  
Mn 202.18 MI 34.85 MA 0.0941 MD 6.48 EM 21.75 GR 5.87

2,4,6-TRIETHYL-1,3,5-TRIMETHYLBORAZINE  
CA 49. 8312ORGAN. LIQUIDICAL D 0.8400 NO1116.0 04444444 T -0.  
C 9 H 24 B 3 M 3  
Mn 206.77 MI 37.41 MA 0.0919 MD 5.87 EM 25.17 GR 6.16

1,1,9-TRIPROPYLBORAZINE  
CA 49. 8312ORGAN. LIQUIDICAL D 0.8400 NO1116.0 04444444 T -0.  
C 9 H 24 B 3 M 3  
Mn 206.77 MI 37.41 MA 0.0919 MD 5.87 EM 25.17 GR 6.16

A 175

TRISITRIMETHYLSILYLBOROXINE  
CA 53. 1304ORGAN. LIQUIDICAL D 0.9880 NO 447.0 04444444 T -0.  
C 9 H 27 B 3 O 6 Si 3  
Mn 348.04 MI 46.92 MA 0.0802 MD 4.62 EM 26.69 GR 6.53

TRIMETHYLENEDIAMINE-BIS(1,3,5-TRIMETHYLBORANE)  
CA 49. 1227ORGAN. SOLIDEST D 0.8500 NO1119.0 04444444 T 103.00  
C 9 H 28 B 2 N 2  
Mn 185.98 MI 39.37 MA 0.1084 MD 7.71 EM 25.63 GR 7.06

TETRAKIS(DICHLOROIMETHYLPHOSPHINO)BORINE METHYLPHOSPHINOBORINE  
AD124. 0280ORGAN. SOLIDICAL D 1.8201 NO4216.0 04444444 T -0.  
C 9 H 28 B 4 P 2  
Mn 628.95 MI 56.39 MA 0.0983 MD 4.88 EM 1592.33 GR 277.55

TRIMETHYLBORINE-TRIMETHYLENEDIAMINE  
CA 49. 1227ORGAN. SOLIDEST D 0.8500 NO1120.0 04444444 T 103.00  
C 9 H 28 B 2 N 2  
Mn 186.09 MI 40.37 MA 0.1103 MD 7.94 EM 26.37 GR 7.22

BORANE-TRISITRIMETHYLSILYLPHOSPHINE  
CA 54. 6910ORGAN. LIQUIDICAL D 1.0383 NO3277.0 04444444 T -0.  
C 9 H 30 B 1 P 1 Si 3  
Mn 266.40 MI 43.97 MA 0.1046 MD 7.23 EM 27.72 GR 6.88

1,3,5-TRIMETHYL-1,3,5-TRIMETHYLBORPHOSPHANE  
CA 54. 9760ORGAN. UNKNOWNICAL D 1.0342 NO3278.0 04444444 T -0.  
C 9 H 30 B 3 P 3  
Mn 265.72 MI 44.19 MA 0.1064 MD 7.22 EM 31.80 GR 7.66

TRIS(DIMETHYLPHOSPHINE)METHYLBORINE  
CA 54. 9760ORGAN. SOLIDICAL D 1.0342 NO3279.0 04444444 T -0.  
C 9 H 30 B 3 P 3  
Mn 265.72 MI 44.19 MA 0.1064 MD 7.22 EM 31.80 GR 7.66

PENTAMERIC DIMETHYLPHOSPHINOBORINE  
CA 54. 4186ORGAN. UNKNOWNICAL D 1.1340 NO3280.0 04444444 T -0.  
C 9 H 36 B 5 P 5  
Mn 353.36 MI 54.79 MA 0.1059 MD 6.96 EM 42.64 GR 8.24

TETRAKIS(DIMETHYLPHOSPHINO)BORINE METHYLPHOSPHINOBORINE  
AD142. 0280ORGAN. SOLIDICAL D 1.1340 NO4217.0 04444444 T 98.50  
C 9 H 36 B 5 P 5  
Mn 353.36 MI 54.79 MA 0.1059 MD 6.96 EM 42.64 GR 8.24

TRIFLUOROACETIC ACID ANHYDRIDE WITH BENZENEBORONIC ACID  
CA 53. 6064ORGAN. SOLIDICAL D 1.4460 NO3282.0 04444444 T 104.00  
C 10 H 5 B 1 F 6 O 5  
Mn 329.97 MI 26.76 MA 0.0706 MD 1.32 EM 5.67 GR 1.50

A 174

1,3,5-TRISOPROPYLBORAZINE  
CA 49. 8312ORGAN. LIQUIDEND D 0.8433 NO 231.0 04444444 T -6.50  
C 9 H 24 B 3 M 3  
Mn 206.77 MI 37.41 MA 0.0919 MD 5.90 EM 25.17 GR 6.18

B-TRI-1-ISOPROPYLBORAZOLE  
CA 54. 15224ORGAN. UNKNOWNEST D 0.8400 NO1829.0 04444444 T -0.  
C 9 H 24 B 3 M 3  
Mn 206.77 MI 37.41 MA 0.0919 MD 5.87 EM 25.17 GR 6.16

B-TRI-PROPYLBORAZOLE  
CA 54. 15224ORGAN. UNKNOWNEST D 0.8400 NO1830.0 04444444 T -0.  
C 9 H 24 B 3 M 3  
Mn 206.77 MI 37.41 MA 0.0919 MD 5.87 EM 25.17 GR 6.16

2,4,6-TRIETHYL-1,3,5-TRIMETHYLBORAZINE  
CA 54. 2630ORGAN. LIQUIDEST D 0.9300 NO1117.0 04444444 T -0.  
C 9 H 24 B 3 M 3  
Mn 254.77 MI 40.38 MA 0.0907 MD 5.39 EM 25.17 GR 5.63

TRIPROPYLBORON-HYDRAZINE  
CA 54. 2630ORGAN. LIQUIDICAL D 0.7331 NO3274.0 04444444 T -0.  
C 9 H 25 B 3 M 3  
Mn 172.13 MI 35.40 MA 0.0908 MD 6.41 EM 22.04 GR 5.63

SODIUM BOROHYDRIDE-TRIS(1,3,5-TRIMETHYLBORANIDE)  
NACN 13578ORGAN. SOLIDICAL D 0.8277 NO3275.0 04444444 T -0.  
C 9 H 25 B 3 M 3 Na 1 O 3  
Mn 251.13 MI 40.65 MA 0.0855 MD 5.26 EM 27.02 GR 5.68

HIS(1,3,5-TRIMETHYLBORANE)-BIS(1,3,5-TRIMETHYLBORANE)  
PB 1.1782ORGAN. LIQUIDEST D 0.8500 NO1118.0 04444444 T -0.  
C 9 H 25 B 2 N 2  
Mn 182.95 MI 36.37 MA 0.1018 MD 7.00 EM 23.43 GR 6.56

2,2,4,4,6-PENTACHLORO-1,3,5-TRIMETHYL-1,3,5-TRIMETHYLBORAPHANE  
WATN 574. 1260ORGAN. UNKNOWNICAL D 1.4092 NO3276.0 04444444 T -0.  
C 9 H 25 B 3 Cl 5 P 3  
Mn 435.97 MI 45.19 MA 0.0880 MD 4.87 EM 1000.36 GR 194.76

TRIPHOSPHORANINE BORATE  
CA 54. 3673ORGAN. LIQUIDICAL D 0.8262 NO4394.0 04444444 T 248.00  
C 9 H 27 B 1 M 3 O 3  
Mn 236.16 MI 41.44 MA 0.0873 MD 5.69 EM 24.59 GR 5.18

TRISITRIMETHYLSILYLBORATE  
CA 54. 3673ORGAN. LIQUIDEND D 0.8285 NO 446.0 04444444 T -0.  
C 9 H 27 B 1 O 3 Si 3  
Mn 278.40 MI 42.01 MA 0.0753 MD 4.84 EM 23.70 GR 4.29

A 176

ALPHA-NAPHTHYL BORON  
GM 13. 2200ORGAN. SOLIDEST D 1.0400 NO1121.0 04444444 T 203.00  
C 10 H 7 B 1  
Mn 157.44 MI 10.07 MA 0.0730 MD 3.18 EM 6.69 GR 3.04

DICHLORONAPHTHYLBORINE  
CA 54. 1427ORGAN. UNKNOWNEST D 1.2000 NO1122.0 04444444 T -0.  
C 10 H 7 B 1 Cl 2  
Mn 208.90 MI 18.47 MA 0.0639 MD 2.47 EM 395.58 GR 136.87

1-NAPHTHYLDIAZONIUM TETRAFLUOROBORATE  
CA 54. 10913ORGAN. UNKNOWNICAL D 1.2311 NO3283.0 04444444 T -0.  
C 10 H 7 N 1 F 4 N 2  
Mn 242.00 MI 23.37 MA 0.0728 MD 2.18 EM 9.14 GR 2.85

DI(1,3,5-TRIMETHYLBORONIC ACID)  
AD254. 7020ORGAN. SOLIDICAL D 1.18 NO4471.0 04444444 T -0.  
C 20 H 15 B 1 O 1  
Mn 282.14 MI 53.16 MA 0.0825 MD 5.20 EM 12.72 GR 3.20

PHENYLO(1,2,2,2-TRICHLOROETHOXY)BORANE  
CA 50. 2180ORGAN. LIQUIDICAL D 1.4921 NO3284.0 04444444 T -0.  
C 10 H 9 B 1 Cl 3 O 2  
Mn 384.74 MI 27.25 MA 0.0637 MD 2.10 EM 1174.84 GR 274.43

(2-ACETYLSTYRYLOXY)DI(FLUOROBORANE)  
CA 50. 3411ORGAN. SOLIDICAL D 1.1585 NO3285.0 04444444 T 100.80  
C 10 H 9 B 1 F 2 O 2  
Mn 210.00 MI 22.03 MA 0.0752 MD 2.99 EM 6.31 GR 2.76

BORON TRIFLUORIDE-1-NAPHTHYLAMINE  
NACN 13721ORGAN. SOLIDEST D 1.5000 NO1123.0 04444444 T -0.  
C 10 H 9 B 1 F 3 N 1  
Mn 211.01 MI 23.01 MA 0.0985 MD 3.85 EM 9.46 GR 4.05

BORON TRIFLUORIDE-(2-NAPHTHYLAMINE)  
NACN 13721ORGAN. SOLIDEST D 1.5000 NO1124.0 04444444 T -0.  
C 10 H 9 B 1 F 3 N 1  
Mn 211.01 MI 23.01 MA 0.0985 MD 3.85 EM 9.46 GR 4.05

DIMYDROXY-1-NAPHTHYLBORANE  
CA 50. 5531ORGAN. SOLIDEST D 1.1000 NO1125.0 04444444 T 190.00  
C 10 H 9 B 1 O 2  
Mn 172.00 MI 20.05 MA 0.0772 MD 3.47 EM 8.16 GR 3.14

DICYCLOPENTADIENYLBORONBORANE  
CA 51. 15584ORGAN. UNKNOWNEST D 1.1000 NO1126.0 04444444 T -0.  
C 10 H 10 B 1 Cl 1  
Mn 176.47 MI 20.27 MA 0.0761 MD 3.75 EM 203.34 GR 76.35

A 177

## NOMON TRICHLORIDE-BISPYRIDINE

CA 54.1289ORGAN. SOLIDICAL D 1.2361 NO3288.0 04444444 T 56.00  
C 10 M 10 B 15.3 M 2  
MW 275.40 MI 24.81 NA 0.0671 MD 2.70 EM 594.39 GR 160.70

## DICYCLOPENTADIENYLFLUOROBORANE

CA 51.15584ORGAN. UNKNOWEST D 1.0000 NO1127.0 04444444 T -0.  
C 10 M 10 B 1 F 1  
MW 160.01 MI 20.36 MA 0.0766 MD 3.76 EM 8.97 GR 3.38

## 5-CARBOXYETHYL-3-NITRO-ORITHO-TOLYLDAZONIUM TETRAFLUOROBORATE

CA 54.12115ORGAN. SOLIDICAL D 1.1274 NO3287.0 04444444 T 128.00  
C 10 M 10 B 1 F 4 N 3 Q 4  
MW 323.03 MI 31.40 MA 0.0460 MD 2.10 EM 12.43 GR 2.61

## SODIUM TRISHYDROXY-1-NAPHTHYLBORATE

CA 51.1882ORGAN. SOLIDICAL D 1.2173 NO3288.0 04444444 T -0.  
C 10 M 10 B 1 NA 1 Q 3  
MW 217.00 MI 23.23 MA 0.0804 MD 3.46 EM 12.79 GR 4.42

## NOMON TRICHLORIDE-ETHYL-4-PYRIDINEACRYLATE

CA 52.14332ORGAN. UNKNOWEST D 1.2170 NO3289.0 04444444 T -0.  
C 10 M 11 B 1 CL 3 N 1 O 2  
MW 294.40 MI 26.72 MA 0.0665 MD 2.74 EM 594.05 GR 147.91

## NOMON TRIFLUORIDE-(2,4,6-TRIMETHYLCYANOBENZENE)

CA 44.8749ORGAN. UNKNOWEST D 1.9000 NO 976.0 04444444 T -0.  
C 10 M 11 B 1 F 3 N 1  
MW 213.03 MI 25.01 MA 0.1061 MD 4.67 EM 10.93 GR 4.63

## 6-CARBOXY-2,3-DIMETHOXY BENZENEDIAZONIUM FLUOROBORATE, ME ESTER

CA 52.3130ORGAN. SOLIDICAL D 1.0981 NO3290.0 04444444 T 168.20  
C 10 M 11 B 1 F 4 N 2 O 4  
MW 310.03 MI 31.33 MA 0.0668 MD 2.35 EM 12.09 GR 2.58

## ORITHO-ETHYLPHENYLIDIUM FLUOROBORATE

CA 51.10472ORGAN. SOLIDICAL D 1.0896 NO3291.0 04444444 T 107.90  
C 10 M 11 B 1 F 4 U 2  
MW 250.02 MI 27.21 MA 0.0714 MD 2.89 EM 9.92 GR 2.61

## (PARA-2-ACETOXYVINYL)PHENYLIDIMETHOXYBORANE

CA 52.10923ORGAN. SOLIDEST D 1.0500 NO1128.0 04444444 T 268.00  
C 10 M 11 B 1 O 3  
MW 190.02 MI 23.06 MA 0.0767 MD 3.66 EM 9.63 GR 3.21

## DIACETYL PHENYLBORONATE

CA 53.6064ORGAN. SOLIDICAL D 1.0371 NO3292.0 04444444 T 171.00  
C 10 M 11 B 1 O 2  
MW 206.02 MI 24.03 MA 0.0729 MD 3.34 EM 9.63 GR 2.92

A 179

## BIS(2-CHLOROETHYL)BENZENEFLUOROBORATE

CA 52.2920ORGAN. LIQUIDAND D 1.1020 NO 444.0 04444444 T -0.  
C 10 M 13 B 1 CL 2 O 2  
MW 246.95 MI 26.45 NA 0.0711 MD 3.49 EM 399.99 GR 107.51

## 2,4,6-TRIMETHYLBENZALDEHYDE TETRAFLUOROBORATE

CA 54.3282ORGAN. LIQUIDICAL D 1.1252 NO3301.0 04444444 T -16.00  
C 10 M 13 B 1 F 4 O 1  
MW 236.03 MI 28.22 MA 0.0810 MD 3.73 EM 11.39 GR 3.27

## 4-PRIME-METHYLPROPIOPHENE TETRAFLUOROBORATE COMPLEX

CA 54.3282ORGAN. UNKNOWEST D 1.1252 NO3302.0 04444444 T -0.  
C 10 M 13 B 1 F 4 O 1  
MW 236.03 MI 28.22 MA 0.0810 MD 3.73 EM 11.39 GR 3.27

## 1,3,5-TRIMETHYL PHENYLFORMYL TETRAFLUOROBORATE

CA 51.7317ORGAN. LIQUIDICAL D 1.1252 NO3303.0 04444444 T -10.00  
C 10 M 13 B 1 F 4 O 1  
MW 236.03 MI 28.22 MA 0.0810 MD 3.73 EM 11.39 GR 3.27

## 2-PHENYL-1,3-DIOX-6-AZA-2-NORA-N-B CYCLOCTANE

AD138. 9370ORGAN. UNKNOWEST D 1.0249 NO4399.0 04444444 T -0.  
C 10 M 13 B 1 M 1 O 2  
MW 190.04 MI 25.12 MA 0.0816 MD 4.22 EM 12.18 GR 3.95

## TETRAHYDRO-2-(META-NITROPHENYL)-1,3,6,2-DIOXAZABOROCINE

CA 50.11982ORGAN. SOLIDICAL D 1.0784 NO3304.0 04444444 T 222.75  
C 10 M 13 B 1 N 2 O 4  
MW 236.05 MI 28.17 MA 0.0775 MD 3.58 EM 13.26 GR 3.65

## PROPYL 3-BONONO-3-NITROCARBANILATE

CA 52.14554ORGAN. UNKNOWEST D 1.1198 NO3305.0 04444444 T -0.  
C 10 M 13 B 1 M 2 O 6  
MW 268.05 MI 30.15 NA 0.0759 MD 3.27 EM 13.26 GR 3.34

## CYCLIC-1-METHYLTRIMETHYLENE PHENYLBORONATE

CA 52.18286ORGAN. UNKNOWEST D 0.9700 NO1130.0 04444444 T -0.  
C 10 M 13 B 1 O 2  
MW 176.03 MI 24.05 MA 0.0798 MD 4.31 EM 11.10 GR 3.68

## U-PHENYLENE TERT-BUTYLBORONATE

CA 53.21096ORGAN. LIQUIDAND D 1.0200 NO 432.0 04444444 T -0.  
C 10 M 13 B 1 O 2  
MW 176.03 MI 24.05 MA 0.0839 MD 4.54 EM 11.10 GR 3.87

## CYCLIC-1,2-DIMETHYLENE PHENYLBORONATE

CA 52.18286ORGAN. UNKNOWEST D 0.9700 NO1131.0 04444444 T -0.  
C 10 M 13 B 1 O 2  
MW 176.03 MI 24.05 MA 0.0798 MD 4.31 EM 11.10 GR 3.68

A 178

## BORON-1-PHENYL-1,3-BUTANEDIOMATE DIPLUORIDE

AD827. 9310ORGAN. SOLIDICAL D 1.139 NO4422.0 04444444 T -0.  
C 10 M 12 B 1 F 4 N 2  
MW 213.01 MI 25.65 MA 0.0765 MD 3.30 EM 10.51 GR 3.14

## METHYL(2,5-DIMETHYLPHENYL)NITRILUM TETRAFLUOROBORATE

CA 50.14772ORGAN. SOLIDICAL D 1.1467 NO3293.0 04444444 T 156.90  
C 10 M 12 B 1 F 4 N 1  
MW 233.03 MI 27.30 MA 0.0809 MD 3.56 EM 11.73 GR 3.48

## METHYL(2,6-DIMETHYLPHENYL)NITRILUM TETRAFLUOROBORATE

CA 50.14772ORGAN. SOLIDICAL D 1.1467 NO3294.0 04444444 T 168.00  
C 10 M 12 B 1 F 4 N 1  
MW 233.03 MI 27.30 MA 0.0809 MD 3.56 EM 11.73 GR 3.48

## METHYL(3,4-DIMETHYLPHENYL)NITRILUM TETRAFLUOROBORATE

CA 50.14772ORGAN. SOLIDICAL D 1.1467 NO3295.0 04444444 T 142.00  
C 10 M 12 B 1 F 4 N 1  
MW 233.03 MI 27.30 MA 0.0809 MD 3.56 EM 11.73 GR 3.48

## NITRODURENEDIAZONIUM TETRAFLUOROBORATE

CA 52.19370ORGAN. UNKNOWEST D 1.1739 NO3296.0 04444444 T -0.  
C 10 M 12 B 1 F 4 N 3 O 2  
MW 293.05 MI 31.42 MA 0.0758 MD 2.90 EM 13.90 GR 3.35

## NITROISODURENEDIAZONIUM TETRAFLUOROBORATE

CA 52.19370ORGAN. UNKNOWEST D 1.1739 NO3297.0 04444444 T -0.  
C 10 M 12 B 1 F 4 N 3 O 2  
MW 293.05 MI 31.42 MA 0.0758 MD 2.90 EM 13.90 GR 3.35

## PARA-THIONORPHOLINOBENZENEDIAZONIUM-FLUOROBORATE

CA 52.19634ORGAN. SOLIDICAL D 1.2108 NO3298.0 04444444 T 161.50  
C 10 M 12 M 1 F 4 N 3 S 1  
MW 293.11 MI 30.74 NA 0.0765 MD 2.99 EM 14.63 GR 3.64

## 3,4-DEHYDRO-3,4-BENZOTRIPYCH-BORAZAZOLINE

CA 54.24681ORGAN. SOLIDICAL D 1.0999 NO3299.0 04444444 T 159.50  
C 10 M 12 B 1 N 1 O 3  
MW 209.03 MI 25.11 MA 0.0611 MD 3.88 EM 11.44 GR 3.70

## 1-PHENYLBOROLANE

CA 49.10213ORGAN. LIQUIDEST D 0.8900 NO1129.0 04144411 T -0.  
C 10 M 13 B 1  
MW 144.03 MI 22.07 MA 0.0821 MD 4.84 EM 11.09 GR 4.13

## CHLORO-P-CHLOROPHENYLISOBUTORYBORANE

CA 51.4985ORGAN. LIQUIDAND D 1.1250 NO 232.0 04444444 T -0.  
C 10 M 13 B 1 CL 2 U 1  
MW 230.95 MI 25.46 MA 0.0747 MD 3.81 EM 399.99 GR 117.36

A 180

## CYCLIC TETRAETHYLENE PHENYLBORONATE

CA 52.18286ORGAN. UNKNOWEST D 1.0000 NO1132.0 04444444 T -0.  
C 10 M 13 B 1 O 2  
MW 176.03 MI 24.05 MA 0.0823 MD 4.45 EM 11.10 GR 3.80

## 5-BUTYL O-PHENYLENE THIOBORATE

CA 53.21906ORGAN. LIQUIDICAL D 1.1222 NO3306.0 04444444 T -0.  
C 10 M 13 B 1 U 2 S 1  
MW 208.09 MI 25.35 NA 0.0823 MD 4.22 EM 11.85 GR 3.85

## SEC-BUTYL O-PHENYLENE BORATE

CA 53.21906ORGAN. LIQUIDAND D 1.0704 NO 427.0 04444444 T -0.  
C 10 M 13 B 1 O 1  
MW 192.03 MI 25.04 NA 0.0841 MD 4.36 EM 11.10 GR 3.73

## BUTYL O-PHENYLENE BORATE

CA 53.21906ORGAN. LIQUIDAND D 1.0707 NO 428.0 04444444 T -0.  
C 10 M 13 B 1 O 1  
MW 192.03 MI 25.04 NA 0.0841 MD 4.37 EM 11.10 GR 3.73

## BUTYLCHLOROPHENYLBORINE

CA 54.8684ORGAN. LIQUIDAND D 0.9986 NO 460.0 04444444 T -0.  
C 10 M 14 B 1 CL 1  
MW 180.50 MI 24.27 NA 0.0807 MD 4.66 EM 206.27 GR 68.60

## TERT-BUTOXYCHLOROPHENYLBORINE

CA 52.2920ORGAN. LIQUIDAND D 1.0210 NO 417.0 04444444 T -0.  
C 10 M 14 B 1 CL 1 O 1  
MW 196.50 MI 25.26 NA 0.0791 MD 4.38 EM 206.27 GR 64.56

## 5FC-AUTOXYCHLOROPHENYLBORINE

CA 52.2920ORGAN. LIQUIDAND D 1.0070 NO 418.0 04444444 T -0.  
C 10 M 14 B 1 CL 1 O 1  
MW 196.50 MI 25.26 NA 0.0780 MD 4.32 EM 206.27 GR 63.67

## CHLOROISOBUTOXYPHENYLBORINE

CA 52.2920ORGAN. LIQUIDAND D 1.0090 NO 419.0 04444444 T -0.  
C 10 M 14 B 1 CL 1 O 1  
MW 196.50 MI 25.26 NA 0.0781 MD 4.33 EM 206.27 GR 63.80

## AUTOXYCHLOROPHENYLBORINE

CA 50.15449ORGAN. LIQUIDAND D 1.0210 NO 233.0 04444444 T -0.  
C 10 M 14 B 1 CL 1 O 1  
MW 196.50 MI 25.26 NA 0.0791 MD 4.38 EM 206.27 GR 64.56

## DIETHYL PARACHLOROPHENYLBORONATE

CA 53.42700ORGAN. LIQUIDEST D 1.0500 NO1133.0 04444444 T -0.  
C 10 M 14 B 1 CL 1 O 2  
MW 212.50 MI 26.25 NA 0.0781 MD 4.17 EM 206.28 GR 61.39

A 181

## BUTOXYFLUOROBORONPHENYLBORANE

CA 50.15449ORGAN.LIQUIDCAL D 0.9818 NO3307.0 04444444 T -0.  
C 10 M 14 B 1 F 1 D 1  
Mh 180.06 MI 26.35 NA 0.0833 MD 4.60 EM 11.90 GR 3.91

## PARA-DIETHYL ANINOBENZENDIAZONIUM

CA 53.12903ORGAN.UNKNOWCAL D 1.0621 NO3308.0 04444444 T -0.  
C 10 M 14 B 1 F 4 N 3  
Mh 263.07 MI 31.44 NA 0.0765 MD 3.40 EM 15.36 GR 3.74

## 2-DIETHYLAMINO-1,3,2-BENZENDIAZABORONOLE

CA 54.10513ORGAN.UNKNOWEST D 0.9500 NO1134.0 04444444 T -0.  
C 10 M 14 B 1 N 1 D 2  
Mh 191.05 MI 26.12 NA 0.0782 MD 4.19 EM 12.91 GR 3.87

## 2,2 PRIME-IMINO-DIETHYL PHENYLBORONATE, CYCLIC ESTER

CA 53.117144ORGAN. SOLIDEST D 1.0000 NO1135.0 04444444 T 189.00  
C 10 M 14 B 1 N 1 D 2  
Mh 191.05 MI 26.12 NA 0.0824 MD 4.41 EM 12.91 GR 4.07

## IMINO-DIETHYLENE BENZENESBORONATE

CA 54.7944ORGAN. SOLIDEST D 1.0000 NO1136.0 04444444 T 189.00  
C 10 M 14 B 1 M 1 D 2  
Mh 191.05 MI 26.12 NA 0.0824 MD 4.41 EM 12.91 GR 4.07

## 1,1,1,1-TETRAHYDRO-2-PHENYL-1,3,2-DIOXAZABORONOCINE

CA 50.9550ORGAN. SOLIDEST D 1.0000 NO1137.0 04444444 T 214.50  
C 10 M 14 B 1 N 1 D 2  
Mh 191.05 MI 26.12 NA 0.0824 MD 4.41 EM 12.91 GR 4.07

## DIETHYLPHENYLBORANE

CA 49.10214ORGAN.UNKNOWEST D 0.8400 NO1138.0 04444444 T -0.  
C 10 M 15 B 1  
Mh 146.05 MI 24.07 NA 0.0836 MD 5.20 EM 12.56 GR 4.35

## NUNUM TRIFLUORIDE-12,6-DIETHYL-N,N-DIMETHYLANILINE

CA 48.5610ORGAN.UNKNOWEST D 1.5000 NO1139.0 04444444 T -0.  
C 10 M 15 B 1 F 3 N 1  
Mh 217.06 MI 29.01 NA 0.1208 MD 6.24 EM 15.86 GR 5.77

## HYDROGEN TETRAFLUOROBORATE-16OUARENE

CA 54.32810ORGAN.LIQUIDCAL D 1.0183 NO3309.0 04444444 T -10.00  
C 10 M 15 B 1 F 4  
Mh 222.05 MI 29.23 NA 0.0807 MD 4.14 EM 12.86 GR 3.55

## 4-ETHYL-N-M-XYLENE TETRAFLUOROBORONATE COMPLEX

CA 54.32810ORGAN.LIQUIDCAL D 1.0183 NO3310.0 04444444 T -75.00  
C 10 M 15 B 1 F 4  
Mh 222.05 MI 29.23 NA 0.0807 MD 4.14 EM 12.86 GR 3.55

A 183

## BISDIETHYLAMINO-DIETHYLBORINE

CA 52.62380ORGAN.LIQUIDRND D 0.9240 NO 439.0 04114444 T -0.  
C 10 M 17 B 1 N 2  
Mh 176.08 MI 28.21 NA 0.0892 MD 5.37 EM 16.19 GR 5.12

## DIHYDROGENBUTYLBORADIAZOLE

CA 54.15224ORGAN. SOLIDEST D 0.9500 NO1831.0 04444444 T 66.50  
C 10 M 17 B 1 N 2  
Mh 176.08 MI 28.21 NA 0.0917 MD 5.52 EM 16.19 GR 5.26

## DIHYDROGENZOISECBUTYLBORADIAZOLE

CA 54.15224ORGAN. SOLIDEST D 0.9500 NO1832.0 04444444 T 61.50  
C 10 M 17 B 1 N 2  
Mh 176.08 MI 28.21 NA 0.0917 MD 5.52 EM 16.19 GR 5.26

## BIS(12-AMINOETHYL)BENZENE-BORONATE

CA 52.19108ORGAN. SOLIDCAL D 0.9427 NO3311.0 04444444 T 178.00  
C 10 M 17 B 1 N 2 D 2  
Mh 208.08 MI 30.19 NA 0.0841 MD 4.74 EM 16.19 GR 4.51

## N,N-BIS(DIETHYLBORON)ANILINE

ACS 5.12903ORGAN.UNKNOWCAL D 1.2693 NO3312.0 04444444 T -0.  
C 10 M 17 B 1 N 1 D 10  
Mh 376.17 MI 41.89 NA 0.0891 MD 3.46 EM 22.08 GR 4.49

## TRIFLUOROACETIC ACID ANHYDRIDE WITH DI-BUTYLBORONIC ACID

CA 54.60840ORGAN.UNKNOWCAL D 1.0193 NO3313.0 04444444 T -0.  
C 10 M 18 B 1 F 3 D 2  
Mh 238.07 MI 32.92 NA 0.0849 MD 4.64 EM 14.99 GR 3.88

## TRIMETHYLBORANE-(12,6-LUTIDINE)

CA 53.18624ORGAN.UNKNOWEST D 0.8800 NO1357.0 04444444 T -0.  
C 10 M 18 B 1 N 1  
Mh 163.08 MI 28.14 NA 0.0915 MD 5.85 EM 15.84 GR 5.15

## TRIMETHYLBORANE-(12-ETHYLPYRIDINE)

CA 51.23750ORGAN.UNKNOWEST D 0.8800 NO1358.0 04444444 T -0.  
C 10 M 18 B 1 N 1  
Mh 163.08 MI 28.14 NA 0.0915 MD 5.85 EM 15.84 GR 5.15

## TRANS-3,6-TETRAMETHYLEMETRIPYCH-BORONAZOLINE

CA 54.24681ORGAN. SOLIDCAL D 0.9502 NO3314.0 04444444 T 138.50  
C 10 M 18 B 1 N 1 D 3  
Mh 211.08 MI 31.11 NA 0.0844 MD 4.88 EM 15.85 GR 4.30

## 3-SUBSTITUTED TRIPYCH-BORONAZOLINE

CA 54.24681ORGAN. SOLIDCAL D 0.9502 NO3315.0 04444444 T 73.50  
C 10 M 18 B 1 N 1 D 4  
Mh 227.08 MI 32.10 NA 0.0835 MD 4.68 EM 15.85 GR 4.12

A 182

## 1,3-DIHYDRO-5-METHYL-2-PROPYL-(2H)-1,3,2-BENZODIAZABOROLE

CA 54.18030ORGAN. SOLIDEST D 1.0000 NO1140.0 04444444 T 100.50  
C 10 M 15 B 1 N 2  
Mh 174.07 MI 26.21 NA 0.0907 MD 5.19 EM 14.72 GR 5.09

## PROPYL METHYLPHENYLBORONATE

CA 49.10214ORGAN.LIQUIDRND D 0.8885 NO 414.0 04444444 T -0.  
C 10 M 15 B 1 D 1  
Mh 167.05 MI 25.06 NA 0.0837 MD 5.01 EM 12.96 GR 4.20

## BUTYLPHENYLBORONIC ACID

CA 54.86440ORGAN.LIQUIDRND D 0.9500 NO 236.0 04114444 T -0.  
C 10 M 15 B 1 D 1  
Mh 167.05 MI 25.06 NA 0.0885 MD 5.30 EM 12.96 GR 4.44

## METHYLPHENYLPROPOXYBORANE

CA 49.10214ORGAN.LIQUIDRND D 0.8940 NO 235.0 04444444 T -0.  
C 10 M 15 B 1 D 1  
Mh 167.05 MI 25.06 NA 0.0833 MD 4.98 EM 12.96 GR 4.17

## DIETHOXYPHENYLBORANE

CA 49.10214ORGAN.LIQUIDRND D 0.9480 NO 236.0 04114444 T -0.  
C 10 M 15 B 1 D 2  
Mh 178.05 MI 26.05 NA 0.0835 MD 4.81 EM 12.96 GR 4.03

## DIETHYL PHENYLBORONATE

CA 54.29470ORGAN.UNKNOWEST D 0.9600 NO1141.0 04444444 T -0.  
C 10 M 15 B 1 D 2  
Mh 178.05 MI 26.05 NA 0.0846 MD 4.87 EM 12.96 GR 4.08

## ISOBUTYL ORTHO PHENYLENE BORATE

CA 53.21903ORGAN.UNKNOWEST D 1.0000 NO1142.0 04444444 T -0.  
C 10 M 15 B 1 D 3  
Mh 194.05 MI 27.04 NA 0.0839 MD 4.66 EM 12.57 GR 3.90

## BUTYL ORTHO PHENYLENE BORATE

CA 53.21903ORGAN.UNKNOWEST D 1.0000 NO1143.0 04444444 T -0.  
C 10 M 15 B 1 D 3  
Mh 194.05 MI 27.04 NA 0.0839 MD 4.66 EM 12.57 GR 3.90

## DIAMIDODETHYL-BIS(PARA-ANISYL) BORONATE

AD 48.1130ORGAN.UNKNOWCAL D 1.1407 NO4196.0 04444444 T -0.  
C 10 M 16 B 1 N 1 D 3  
Mh 209.07 MI 29.11 NA 0.0855 MD 4.70 EM 14.38 GR 4.22

## BIS-11,11-TRIFLUORO-2-PROPYLBUTYLBORONATE

AD 48.1130ORGAN.UNKNOWCAL D 1.1407 NO4423.0 04444444 T -0.  
C 10 M 17 B 1 F 4 D 2  
Mh 244.07 MI 35.79 NA 0.0836 MD 3.97 EM 14.48 GR 3.38

A 184

## 4-T-BUTYLPYROCATECHOL BORIC ACID

CA 51.14254ORGAN.UNKNOWCAL D 1.0001 NO3316.0 04444444 T -0.  
C 10 M 18 B 1 D 5  
Mh 229.07 MI 32.02 NA 0.0842 MD 4.73 EM 14.77 GR 3.88

## METHANYL BORANE

CA 55.27220ORGAN.UNKNOWCAL D 0.7876 NO4197.0 04444444 T -0.  
C 10 M 19 B 1  
Mh 150.08 MI 28.07 NA 0.0887 MD 6.01 EM 15.50 GR 4.90

## 1,1-DIMETHYLBORANE

CA 55.27220ORGAN.UNKNOWCAL D 0.7876 NO4198.0 04444444 T -0.  
C 10 M 19 B 1  
Mh 150.08 MI 28.07 NA 0.0887 MD 6.01 EM 15.50 GR 4.90

## BUTYL DIALLYLBORONATE

CA 55.69900ORGAN.LIQUIDRND D 0.8092 NO 434.0 04444444 T -0.  
C 10 M 19 B 1 D 1  
Mh 166.08 MI 29.06 NA 0.0853 MD 5.58 EM 15.50 GR 4.55

## 1,3-DIETHYLTRIMETHYLENE 4-HYDROXYPENTANON-2-YL BORATE

CA 54.86270ORGAN.UNKNOWEST D 0.8700 NO1359.0 04444444 T -0.  
C 10 M 19 B 1 D 3  
Mh 198.08 MI 31.04 NA 0.0821 MD 5.03 EM 15.50 GR 4.10

## DIHYDROBORIC ACID

GR 15.2300ORGAN. SOLIDCAL D 0.9964 NO4289.0 04444444 T 132.00  
C 10 M 19 B 1 D 4  
Mh 246.08 MI 34.01 NA 0.0829 MD 4.63 EM 15.51 GR 3.78

## CHLOROCYCLOHEXYLBORONATOXYBORINE

CA 53.16128ORGAN.LIQUIDRND D 0.9510 NO 442.0 04444444 T -0.  
C 10 M 20 B 1 CL 1 D 1  
Mh 202.95 MI 31.26 NA 0.0884 MD 5.68 EM 210.68 GR 59.58

## CHLORODIIS-CHLOROPENTYLOXYBORANE

CA 51.94760ORGAN.LIQUIDRND D 1.1270 NO 237.0 04444444 T -0.  
C 10 M 20 B 1 CL 3 D 2  
Mh 289.46 MI 34.65 NA 0.0813 MD 4.69 EM 599.57 GR 140.61

## BORON TRICHLORIDE-(12-ETHYL ACETATE)

CA 52.19540ORGAN.UNKNOWEST D 1.1300 NO1360.0 04444444 T -0.  
C 10 M 20 B 1 CL 3 D 2  
Mh 289.46 MI 34.65 NA 0.0813 MD 4.70 EM 599.57 GR 140.98

## BORON TRICHLORIDE-OCETYLACETATE

CA 52.19540ORGAN.UNKNOWEST D 1.1300 NO1361.0 04444444 T -0.  
C 10 M 20 B 1 CL 3 D 2  
Mh 289.46 MI 34.65 NA 0.0813 MD 4.70 EM 599.57 GR 140.98

A 185

BUTYL(CYCLOHEXYLOXY) FLUOROBORANE  
CA 51. 6502ORGAN.LIQUIDCAL D 0.6403 NO3317.0 04444444 T -0.  
C 10 H 20 B 1 F 1 O 1  
Mw 186.09 MI 31.35 MA 0.0861 MD 5.49 EM 16.31 GR 4.48

BENZYLTRIMETHYLAMMONIUM HYDROBORATE  
CA 53. 6991ORGAN. SULIDKNO D 0.6380 NO 92.0 04444414 T -0.  
C 10 H 20 B 1 N 1  
Mw 165.10 MI 30.14 MA 0.0702 MD 4.66 EM 17.31 GR 4.03

DIALLYLBUTYLAMINOBORINE  
CA 53. 6991ORGAN.UNKNOWCAL D 0.6338 NO 398.0 04414444 T -0.  
C 10 H 20 B 1 N 1  
Mw 165.10 MI 30.14 MA 0.0917 MD 6.08 EM 17.31 GR 5.27

IMINOETHYL CYCLOHEXYLBORONATE  
CA 51. 6532ORGAN.UNKNOWCAL D 0.6578 NO6345.0 44444444 T -0.  
C 10 H 20 B 1 N 1 O 2  
Mw 197.10 MI 32.12 MA 0.0842 MD 5.24 EM 17.31 GR 4.54

POLYMERIC DIAMYLPHOSPHINODIBORINE  
CA 56.1340ORGAN.LIQUIDCAL D 1.1812 NO4309.0 04444444 T -0.  
C 10 H 20 B 1 P 1  
Mw 182.06 MI 30.40 MA 0.1188 MD 7.82 EM 18.05 GR 7.05

DIISACTYLOXYPROPYLBORON CHLORIDE  
CA 51.1126ORGAN. SOLIDCAL D 0.9698 NO3318.0 04444444 T 64.25  
C 10 H 20 B 2 O 3  
Mw 241.91 MI 34.49 MA 0.0865 MD 4.83 EM 17.63 GR 4.26

2,7-PHINEX-DIYBIS(4,8-DIMETHYL-1,3,2-DIOXABORINANE)  
CA 51. 5867ORGAN.LIQUIDCAL D 0.9698 NO3319.0 04044444 T -0.  
C 10 H 20 B 2 O 3  
Mw 241.91 MI 34.49 MA 0.0845 MD 4.83 EM 17.63 GR 4.26

BENZYLTRIMETHYLAMMONIUM PENTABORATE  
CA 56. 2069ORGAN. SOLIDCAL D 1.1506 NO3320.0 04444444 T -0.  
C 10 H 20 B 5 N 1 O 2  
Mw 368.38 MI 43.92 MA 0.0831 MD 3.78 EM 22.89 GR 4.33

1-PENTYL-2-METHYLBOROLANE  
AD235. 0780ORGAN. SOLIDCAL D 0.7765 NO4425.0 04444444 T -0.  
C 10 H 21 B 1  
Mw 152.10 MI 30.07 MA 0.0929 MD 6.46 EM 16.46 GR 5.22

ACETYL DEBUTYLBORINATE  
CA 53. 6064ORGAN. SULIDEST D 0.8400 NO1145.0 04444444 T 50.50  
C 10 H 21 B 1 O 2  
Mw 184.10 MI 32.05 MA 0.0881 MD 5.77 EM 16.97 GR 4.66

A 187

BORON TRIFLUORIDE-BIS ISOPENTYL ALCOHOL  
CA 56. 4358ORGAN.UNKNOWEST D 1.0200 NO1157.0 04444444 T -0.  
C 10 H 22 B 1 F 3 O 2  
Mw 242.11 MI 36.92 MA 0.0937 MD 5.98 EM 17.92 GR 4.55

1,1-DIBUTYLAMINO-1,3,2-DIOXABOROLANE  
CA 56.1081ORGAN.UNKNOWEST D 0.9000 NO1153.0 04444444 T -0.  
C 10 H 22 B 1 N 2 O 2  
Mw 194.11 MI 34.12 MA 0.0929 MD 5.99 EM 18.78 GR 5.11

1,1-DIBUTYL-2-HEXYL-1,3,2-DIOXABOROLANE  
CA 51. 6532ORGAN. SOLIDEST D 0.9000 NO1154.0 04444444 T 126.00  
C 10 H 22 B 1 N 1 O 2  
Mw 194.11 MI 34.12 MA 0.0929 MD 5.99 EM 18.78 GR 5.11

1,5-DIETHOXY-1,3-DIBOROX-CYCLOHEXYL  
CA 56. 1267ORGAN.LIQUIDAND D 0.8826 NO 241.0 04114411 T -0.  
C 10 H 22 B 2 O 2  
Mw 195.93 MI 34.02 MA 0.0922 MD 5.97 EM 19.09 GR 5.18

DIPOTASSIUM METHYLBORONOBIS(DIMETHYLOXYHYDROXYBORATE)-PYRIDINE  
CA 56.2212ORGAN.UNKNOWCAL D 1.0893 NO3322.0 04444444 T -0.  
C 10 H 22 B 3 K 2 N 1 O 4  
Mw 330.75 MI 41.12 MA 0.0815 MD 4.36 EM 66.09 GR 13.10

DIBUTYLETHYLBORANE  
CA 51. 1028ORGAN.LIQUIDEST D 0.7400 NO1155.0 04444444 T -0.  
C 10 H 23 B 1  
Mw 154.11 MI 32.07 MA 0.0928 MD 6.05 EM 18.43 GR 5.33

TRIBUTYLDIPROPYLBORANE  
CA 56.1425ORGAN.LIQUIDEST D 0.7400 NO1833.0 04444444 T -0.  
C 10 H 23 B 1  
Mw 154.11 MI 32.07 MA 0.0928 MD 6.05 EM 18.43 GR 5.33

2,7,5,5-TETRAETHYL-3-HEXYLBORATE  
CA 55. 3422ORGAN. SOLIDCAL D 0.7272 NO3323.0 04444444 T 85.00  
C 10 H 23 B 1  
Mw 154.11 MI 32.07 MA 0.0912 MD 6.54 EM 18.43 GR 5.24

DIISSOPENTYLBORONIC ACID  
CA 53.1310ORGAN.UNKNOWEST D 0.9000 NO1156.0 04444444 T -0.  
C 10 H 23 B 1 O 1  
Mw 170.11 MI 33.06 MA 0.1054 MD 7.33 EM 18.43 GR 5.87

BUTYL DIPROPYLBORINATE  
CA 56.1303ORGAN.LIQUIDAND D 0.7777 NO1744.0 04444444 T -0.  
C 10 H 23 B 1 O 1  
Mw 170.11 MI 33.06 MA 0.0910 MD 6.33 EM 18.43 GR 5.08

A 188

CYCLO(12-METHYL-2,6-PENTANEDIOL)-1-BUTANEBORONATE  
CA 56. 5071ORGAN.UNKNOWEST D 0.9000 NO1146.0 04444444 T -0.  
C 10 H 21 B 1 O 2  
Mw 184.10 MI 32.05 MA 0.0846 MD 6.18 EM 16.97 GR 5.00

DIBUTYL ETHYLENEBORONATE  
CA 56. 8607ORGAN.LIQUIDAND D 0.8372 NO 238.0 04444444 T -0.  
C 10 H 21 B 1 O 2  
Mw 184.10 MI 32.05 MA 0.0878 MD 5.75 EM 16.97 GR 4.65

ETHYLENE OCTYL THIOBORATE  
CA 56.1051ORGAN.UNKNOWCAL D 0.9613 NO3321.0 04444444 T -0.  
C 10 H 21 B 1 O 2 S 1  
Mw 216.18 MI 33.35 MA 0.0893 MD 5.63 EM 17.73 GR 4.75

CYCLO(ESTER OF 2,4-DIMETHYL-2,6-HEXANEDIOL WITH ETHOXYBORONIC ACID)  
CA 52.1994ORGAN.UNKNOWEST D 0.9000 NO1147.0 04444444 T -0.  
C 10 H 21 B 1 O 3  
Mw 200.10 MI 33.04 MA 0.0895 MD 5.69 EM 16.97 GR 4.60

DIMETHOXY-1-PENTHYLOXYBORANE  
CA 56. 1867ORGAN. SOLIDEST D 4.0600 NO1148.0 04444444 T 133.50  
C 10 H 21 B 1 O 3  
Mw 200.10 MI 33.04 MA 0.1054 MD 6.70 EM 16.97 GR 5.41

ZETHYL-4,8,8-ETHYLTRIMETHYL-1,3,2-DIOXABORINANE  
CA 56. 2657ORGAN.LIQUIDEST D 0.9000 NO1149.0 04444444 T -0.  
C 10 H 21 B 1 O 3  
Mw 200.10 MI 33.04 MA 0.0895 MD 5.69 EM 16.97 GR 4.60

DIAMYLCHLOROBORANE  
CA 51. 9478ORGAN.LIQUIDAND D 0.9330 NO 239.0 04444444 T -0.  
C 10 H 22 B 1 CL 1  
Mw 188.86 MI 32.27 MA 0.0962 MD 6.56 EM 212.14 GR 63.23

CHLORO(1,1-DIISOPENTYLOXY)BORINE  
CA 56.1271ORGAN.LIQUIDAND D 0.9060 NO 240.0 04444444 T -0.  
C 10 H 22 B 1 CL 1 O 2  
Mw 220.196 MI 34.23 MA 0.0847 MD 5.46 EM 212.15 GR 52.49

BORON TRIFLUORIDE-DECANOL  
CA 53. 5942ORGAN.UNKNOWEST D 1.0200 NO1150.0 04444444 T -0.  
C 10 H 22 B 1 F 3 O 1  
Mw 226.11 MI 35.93 MA 0.0976 MD 5.98 EM 17.92 GR 4.87

BORON TRIFLUORIDE-1,3-DIPENTYL ETHER  
CA 55. 6989ORGAN.LIQUIDEST D 1.0200 NO1151.0 04444444 T -0.  
C 10 H 22 B 1 F 3 O 1  
Mw 226.11 MI 35.93 MA 0.0976 MD 5.98 EM 17.92 GR 4.87

A 188

BUTYLBUTYLETHYLBORANE  
NACH. 35321ORGAN.LIQUIDEST D 0.8300 NO1157.0 04444444 T -0.  
C 10 H 23 B 1 O 1  
Mw 170.11 MI 33.06 MA 0.0972 MD 6.76 EM 18.43 GR 5.42

TRIBUTYL DIISOPROPYLBORINATE  
CA 56.1600ORGAN.LIQUIDEST D 0.7400 NO1835.0 04444444 T -0.  
C 10 H 23 B 1 O 1  
Mw 170.11 MI 33.06 MA 0.0929 MD 6.43 EM 18.43 GR 5.16

ISOBUTYL DIISOPROPYLBORINATE  
CA 56.1600ORGAN.LIQUIDEST D 0.7400 NO1836.0 04444444 T -0.  
C 10 H 23 B 1 O 1  
Mw 170.11 MI 33.06 MA 0.0929 MD 6.43 EM 18.43 GR 5.16

ETHYL DIBUTYLBORINATE  
CA 56. 2912ORGAN.LIQUIDAND D 0.7886 NO 242.0 04444444 T -0.  
C 10 H 23 B 1 O 1  
Mw 170.11 MI 33.06 MA 0.0923 MD 6.42 EM 18.43 GR 5.15

DIMETHOXYDIBORANE  
NACH. 35321ORGAN.LIQUIDAND D 0.8347 NO 243.0 04444444 T -0.  
C 10 H 23 B 1 O 2  
Mw 186.11 MI 34.05 MA 0.0920 MD 6.21 EM 18.43 GR 4.98

DIBUTYL ETHYLBORONATE  
CA 56. 6237ORGAN.LIQUIDAND D 0.8224 NO 416.0 04444444 T -0.  
C 10 H 23 B 1 O 2  
Mw 186.11 MI 34.05 MA 0.0906 MD 6.12 EM 18.43 GR 4.91

DECYLBORONIC ACID  
CA 52.1452ORGAN.UNKNOWEST D 0.8800 NO1158.0 04444444 T -0.  
C 10 H 23 B 1 O 2  
Mw 186.11 MI 34.05 MA 0.0970 MD 6.55 EM 18.43 GR 5.25

BUTYLDIISOPROPYLBORANE  
CA 51. 6505ORGAN.LIQUIDEST D 0.8300 NO1159.0 04444444 T -0.  
C 10 H 23 B 1 O 2  
Mw 186.11 MI 34.05 MA 0.0915 MD 6.18 EM 18.43 GR 4.95

DIBUTYL ETHYL BORATE  
CA 53.1001ORGAN.LIQUIDAND D 0.8194 NO 431.0 04444444 T -0.  
C 10 H 23 B 1 O 3  
Mw 202.11 MI 35.04 MA 0.0896 MD 5.62 EM 18.44 GR 4.90

DIETHYLMETHYLBORATE  
CA 56. 6920ORGAN.UNKNOWEST D 0.8500 NO1160.0 04444444 T -0.  
C 10 H 23 B 1 O 3  
Mw 202.11 MI 35.04 MA 0.0888 MD 5.83 EM 18.44 GR 4.67

A 189

## 2-HYDROXYETHYL DIBUTYLBORATE

CA 53. 5782ORGAN.UMKNOWCAL D 0.8816 NO3324.0 04444444 T -0.  
C 10 M 23 B 1 S 1  
Mn 218.11 MI 38.03 NA 0.0877 MD 9.60 EM 18.44 GR 4.49

## BUTYL DIISOPROPYLTHIOBORINATE

CA 54. 2610ORGAN.UMKNOWCAL D 0.8286 NO 244.0 04444444 T -0.  
C 10 M 23 B 1 S 1  
Mn 186.17 MI 33.37 NA 0.0895 MD 6.17 EM 19.19 GR 5.16

## DIISOPENTYLTHIOBORINIC ACID

CA 54. 1248ORGAN.UMKNOWCAL D 0.8179 NO 249.0 04144444 T -0.  
C 10 M 23 B 1 S 1  
Mn 186.17 MI 33.37 NA 0.0883 MD 6.09 EM 19.19 GR 5.08

## ETHYL DIBUTYLTHIOBORINATE

CA 54. 1833ORGAN.UMKNOWCAL D 0.8318 NO1834.0 04444444 T -0.  
C 10 M 23 B 1 S 1  
Mn 186.17 MI 33.37 NA 0.0898 MD 6.19 EM 19.19 GR 5.16

## BUTYL DIISOPROPYLTHIOBORINATE

CA 54. 2093ORGAN.UMKNOWCAL D 0.8253 NO3325.0 04444444 T -0.  
C 10 M 23 B 1 S 1  
Mn 186.17 MI 33.37 NA 0.0891 MD 6.14 EM 19.19 GR 5.12

## 4-TEXT-BUTYL-1,1-DIMETHYL-1-3-1,4-6-BORACYCLOHEXANE

CA 54. 1252ORGAN.UMKNOWCAL D 0.8267 NO3326.0 04444444 T -0.  
C 10 M 23 B 1 S 1  
Mn 182.20 MI 33.33 NA 0.0911 MD 6.29 EM 19.21 GR 5.25

## DIISOBUTYLUTYRYL-N-ETHYL-DIBORAMIDE

CA 54. 1991ORGAN.UMKNOWCAL D 0.8288 NO3327.0 04444444 T -0.  
C 10 M 23 B 2 M 1  
Mn 194.94 MI 35.10 NA 0.0899 MD 5.89 EM 20.90 GR 5.35

## N(1,3)-METHYL-2-BUTYLBORANE

CA 54. 2449ORGAN.UMKNOWCAL D 0.7053 NO3328.0 04444444 T -0.  
C 10 M 24 B 1  
Mn 155.12 MI 33.07 NA 0.0906 MD 6.57 EM 19.17 GR 5.25

## DICHLOOROBUTYLBORANE-TRIETHYLAMINE

CA 54. 1097ORGAN.UMKNOWCAL D 1.0800 NO1161.0 04444444 T -0.  
C 10 M 24 B 1 CL 2 M 1  
Mn 240.04 MI 38.54 NA 0.0990 MD 6.50 EM 409.14 GR 110.88

## BORON TRIFLUORIDE-NISISOPENTANIL

CA 53. 1889ORGAN.UMKNOWCAL D 1.0000 NO1162.0 04444444 T -0.  
C 10 M 24 N 1 F 3 D 2  
Mn 244.12 MI 38.92 NA 0.0980 MD 5.92 EM 19.39 GR 4.78

A 191

## DIETHYLPHOSPHINOBORINE-ETHYLPHOSPHINOBORINE CYCLIC COPOLYMER

CA 54. 3704ORGAN.UMKNOWCAL D 1.3521 NO4141.0 04444444 T -0.  
C 10 M 32 B 3 P 3  
Mn 277.75 MI 47.00 NA 0.1378 MD 9.38 EM 93.29 GR 9.76

## PLANTALPHOSPHINOBORINE TRIMER

AD142. 0780ORGAN.UMKNOWCAL D 1.0462 NO4218.0 04444444 T -77.00  
C 10 M 32 B 3 P 3  
Mn 277.75 MI 47.00 NA 0.1066 MD 7.26 EM 93.29 GR 7.55

## DECABORANE-BISDIETHYLAMINOMETHYLENE

CA 53. 9156ORGAN.UMKNOWCAL D 1.0855 NO3334.0 04444444 T 145.00  
C 10 M 32 B 10 N 4  
Mn 316.40 MI 94.08 NA 0.1096 MD 6.49 EM 41.88 GR 8.49

## DECABORON DIOXACANDRINE-BISIMINE:HYL CHANIDE-BISISOPROPYLAMINE

CA 54. 1179ORGAN.UMKNOWCAL D 0.9902 NO3335.0 04444444 T -0.  
C 10 M 36 4 10 M 4  
Mn 320.63 MI 98.08 NA 0.1080 MD 6.70 EM 44.81 GR 8.34

## PENTABORON HYDRIDE-PENTAKISDIETHYLAMINE

CA 52. 1086ORGAN.UMKNOWCAL D 0.7730 NO 422.0 04144444 T -0.  
C 10 M 44 B 5 N 5  
Mn 286.80 MI 82.30 NA 0.1005 MD 7.10 EM 44.80 GR 7.23

## 2-CHLORO-1,3,2-BENZODIOXABOROLE-PYRIDINE

CA 53. 2198ORGAN.UMKNOWCAL D 1.2327 NO3336.0 04444444 T 89.00  
C 11 M 9 B 1 CL 1 N 1 D 2  
Mn 233.48 MI 23.13 NA 0.0736 MD 2.86 EM 203.70 GR 64.78

## DICHLOORO-10RTHOMIOPHENOXIBORINE-PYRIDINE

CA 52. 1954ORGAN.UMKNOWCAL D 1.282 NO3337.0 04444444 T 172.00  
C 11 M 9 B 1 CL 2 M 2 D 1  
Mn 298.55 MI 26.33 NA 0.0682 MD 2.32 EM 99.23 GR 103.15

## DICHLOORO-10RTHOMIOPHENOXIBORINE-PYRIDINE

CA 51. 2777ORGAN.UMKNOWCAL D 1.3584 NO3338.0 04444444 T 68.50  
C 11 M 9 B 1 CL 3 M 1 D 1  
Mn 288.39 MI 26.54 NA 0.0696 MD 2.55 EM 592.59 GR 188.13

## 4-METHYL-1-NAPHTHALENE DIAZONIUM FLUOBORATE

CA 53. 1339ORGAN.UMKNOWCAL D 1.1760 NO3339.0 04444444 T -0.  
C 11 M 9 B 1 F 4 N 2  
Mn 256.03 MI 26.18 NA 0.0724 MD 2.49 EM 10.63 GR 2.94

## 3-METHOXY-2-NAPHTHALENE DIAZONIUM FLUOBORATE

CA 53. 1501ORGAN.UMKNOWCAL D 1.1859 NO3340.0 04444444 T 153.00  
C 11 M 9 B 1 F 4 N 2 D 1  
Mn 272.03 MI 27.17 NA 0.0713 MD 2.36 EM 10.63 GR 2.79

A 190

## ETHYLAMINODIBUTYLBORANE

CA 44. 6588ORGAN.UMKNOWCAL D 0.7708 NO1163.0 04444444 T -0.  
C 10 M 24 B 1 N 1  
Mn 169.13 MI 34.14 NA 0.0936 MD 6.58 EM 20.24 GR 5.95

## DIISOBUTYLAMINODIPROPYLBORINE

CA 54. 2610ORGAN.UMKNOWCAL D 0.7724 NO 246.0 04444444 T -0.  
C 10 M 24 B 1 N 1  
Mn 169.13 MI 34.14 NA 0.0939 MD 6.60 EM 20.24 GR 5.97

## DIBUTORYETHYLAMINODIBORINE

CA 53. 1414ORGAN.UMKNOWCAL D 0.8460 NO 437.0 04444444 T 0.40  
C 10 M 24 B 1 N 1 D 2  
Mn 201.13 MI 36.12 NA 0.0915 MD 6.08 EM 20.25 GR 5.13

## 4-DIISOPROPYLAMINODIBUTYLBORONIC ACID

AD261. 2310ORGAN.UMKNOWCAL U 0.8080 NO4427.0 24444444 T -0.  
C 10 M 24 B 1 N 1 D 2  
Mn 201.13 MI 36.12 NA 0.0874 MD 5.81 EM 20.25 GR 4.90

## 1,5-BISDIETHYLAMINO-1,5-DIBOROCANE

CA 54. 1267ORGAN.UMKNOWCAL D 0.8670 NO 247.0 04144444 T -0.  
C 10 M 24 B 2 N 2  
Mn 193.90 MI 36.18 NA 0.0974 MD 6.46 EM 22.71 GR 6.12

## TRIETHYLALUMINUM BORON TRIFLUORIDE ETHERATE

CA 54. 3111ORGAN.UMKNOWCAL D 0.9846 NO3329.0 04444444 T -0.  
C 10 M 25B 1 B 1 P 3 D 1  
Mn 256.11 MI 40.24 NA 0.0932 MD 5.79 EM 22.12 GR 5.12

## DIPENTYLPHOSPHINE BORINE

CA 54. 5463ORGAN.UMKNOWCAL D 0.8087 NO3330.0 04444444 T -0.  
C 10 M 28 B 1 P 1  
Mn 188.11 MI 36.40 NA 0.0943 MD 6.73 EM 22.46 GR 5.81

## BIS(1,3-TRIMETHYLPHOSPHINE-DICHLORODETHYLENEBORINE)

CA 54. 2440ORGAN.UMKNOWCAL D 1.2618 NO3331.0 04444444 T -0.  
C 10 M 28 B 2 CL 4 P 2  
Mn 371.74 MI 43.30 NA 0.0889 MD 5.32 EM 803.45 GR 164.27

## DIBORON TETRAKISDIETHYLAMINE-ETHYLENE

CA 54. 1297ORGAN.UMKNOWCAL D 0.7953 NO3332.0 04444444 T -0.  
C 10 M 28 B 2 M 2  
Mn 226.01 MI 42.32 NA 0.0897 MD 5.93 EM 27.81 GR 5.89

## PENTAETHYL PENTABORANE

CA 54. 1297ORGAN.UMKNOWCAL D 0.7876 NO3333.0 04444444 T -0.  
C 10 M 29 B 5  
Mn 205.44 MI 41.45 NA 0.0978 MD 6.78 EM 28.40 GR 6.02

A 192

## 2,4-DICHLORO-N-ETHYLQUINOLINIUM TETRAFLUOROBORATE

CA 54. 1808ORGAN.UMKNOWCAL D 1.2656 NO3341.0 04444444 T -0.  
C 11 M 10 B 1 CL 2 F 4 N 1  
Mn 313.94 MI 28.51 NA 0.0692 MD 2.43 EM 394.18 GR 98.93

## DICHLOOROPHENYLBORANE-PYRIDINE

CA 50. 1260ORGAN.UMKNOWCAL D 1.1500 NO1164.0 04444444 T 64.00  
C 11 M 10 B 1 CL 2 N 1  
Mn 237.94 MI 23.35 NA 0.0880 MD 2.91 EM 398.88 GR 116.17

## DICHLOOROETHYLAMINODIBUTYLBORINE

CA 54. 8742ORGAN.UMKNOWCAL D 1.2500 NO1165.0 04444444 T -0.  
C 11 M 10 B 1 CL 2 M 1  
Mn 237.94 MI 23.35 NA 0.0739 MD 3.16 EM 398.88 GR 126.22

## DICHLOOROPHENYLBORANE-PYRIDINE

CA 50. 1422ORGAN.UMKNOWCAL D 1.2333 NO3342.0 04444444 T 100.00  
C 11 M 10 B 1 CL 2 M 1 D 1  
Mn 233.94 MI 24.34 NA 0.0713 MD 2.93 EM 398.88 GR 116.01

## PHENYLPIRIDINIUM TETRAFLUOROBORATE

CA 49. 3903ORGAN.UMKNOWCAL D 1.1383 NO3343.0 04444444 T 178.50  
C 11 M 10 B 1 F 4 N 1  
Mn 243.03 MI 26.11 NA 0.0731 MD 2.82 EM 10.28 GR 2.90

## PARACHLOROPHENYLBORINE-PYRIDINE

CA 53. 4270ORGAN.UMKNOWCAL D 0.9500 NO1166.0 04444444 T 61.50  
C 11 M 11 B 1 CL 1 N 1  
Mn 203.49 MI 23.15 NA 0.0551 MD 3.09 EM 205.17 GR 57.69

## 2-ETHOXYBENZOPYRILUM TETRAFLUOROBORATE

CA 54. 9427ORGAN.UMKNOWCAL D 1.1264 NO3344.0 04444444 T 104.00  
C 11 M 11 B 1 F 4 D 2  
Mn 262.03 MI 28.02 NA 0.0726 MD 2.85 EM 9.94 GR 2.57

## TRIS(2,2,2-TRIFLUOROETHYL)BORATE-PYRIDINE

CA 52. 7003ORGAN.UMKNOWCAL D 1.1843 NO3345.0 04444444 T -0.  
C 11 M 11 B 1 F 9 N 1 D 3  
Mn 387.04 MI 36.53 NA 0.0673 MD 2.03 EM 11.39 GR 2.10

## PURINE ANALOGUE WITH BORON

CA 53. 1643ORGAN.UMKNOWCAL D 1.0008 NO3346.0 04444444 T -0.  
C 11 M 11 B 1 N 4 D 1  
Mn 226.06 MI 26.15 NA 0.0697 MD 2.93 EM 13.96 GR 3.72

## METHYL-1-NAPHTHYLBORONIC ACID

CA 52. 1630ORGAN.UMKNOWCAL D 1.1000 NO1167.0 04444444 T 206.00  
C 11 M 11 B 1 O 2  
Mn 186.03 MI 27.86 NA 0.0814 MD 3.92 EM 9.64 GR 3.44



A 193

## 2-NAPHTHYL-1-NAPHTHYLBORONIC ACID

CA 51. 69320000. SOLIDEST D 1.1000 NO1168.0 04444444 T 124.00  
C 11 H 11 B 1 O 2  
MW 186.03 MI 22.86 MA 0.0814 MD 3.92 EM 9.64 GR 3.44

## DIMETHOXY-2-NAPHTHALENE METHYL BORANE

CA 51. 69320000. SOLIDEST D 1.1000 NO1169.0 04444444 T 133.50  
C 11 H 11 B 1 O 2  
MW 186.03 MI 22.86 MA 0.0814 MD 3.92 EM 9.64 GR 3.44

## 2-METHOXY-1-NAPHTHYLBORONIC ACID

CA 52. 14320000. SOLIDEST D 1.1000 NO1170.0 04444444 T 144.00  
C 11 H 11 B 1 O 3  
MW 202.03 MI 23.85 MA 0.0782 MD 3.61 EM 9.05 GR 3.16

## N-(1,4-DICHLOROPHENYL)TRISUBSUTYLAMINE CYCLIC 2,3-BORATE

CA 53. 270000. SOLIDEST D 1.1705 NO3347.0 04444444 T 118.50  
C 11 H 12 B 1 CL 2 N 1 O 3  
MW 319.96 MI 30.30 MA 0.0668 MD 2.64 EM 400.35 GR 88.22

## PHENYLBORINE-PYRIDINE

CA 53. 42700000. SOLIDEST D 1.0900 NO1173.0 04444444 T 84.00  
C 11 H 12 B 1 N 1  
MW 169.04 MI 22.95 MA 0.0891 MD 4.66 EM 11.65 GR 4.45

## CYCLIC ESTER OF BENZENEBORONIC ACID WITH TRANS-1,2-CYCLOPENTANEDIOL

CA 52. 18280000. SOLIDEST D 1.0000 NO1171.0 04444444 T 30.00  
C 11 H 13 B 1 O 2  
MW 188.04 MI 24.86 MA 0.0796 MD 4.16 EM 11.11 GR 3.56

## CYCLIC ESTER OF BENZENEBORONIC ACID WITH CIS-1,2-CYCLOPENTANEDIOL

CA 52. 18280000. SOLIDEST D 1.0000 NO1172.0 04444444 T -0.  
C 11 H 13 B 1 O 2  
MW 188.04 MI 24.86 MA 0.0796 MD 4.16 EM 11.11 GR 3.56

## PHENYL(2,3,5-TRIMETHYLPHENYL)NITRILUM TETRAFLUOROBORATE

CA 50. 14772000. SOLIDEST D 1.1003 NO3348.0 04444444 T 169.50  
C 11 H 14 B 1 F 4 N 1  
MW 247.06 MI 30.11 MA 0.0808 MD 3.76 EM 13.22 GR 3.55

## METHYL(2,4,6-TRIMETHYLPHENYL)NITRILUM TETRAFLUOROBORATE

CA 50. 14772000. SOLIDEST D 1.1003 NO3349.0 04444444 T 147.00  
C 11 H 14 B 1 F 4 N 1  
MW 247.06 MI 30.11 MA 0.0808 MD 3.76 EM 13.22 GR 3.55

## ZIN-PARA-TOLYLIMINO-TETRAHYDROFURAN HYDROFLUOROBORATE

CA 51. 10472000. UNKNOWCAL D 1.1203 NO3350.0 04444444 T -0.  
C 11 H 14 D 1 F 4 N 1 O 3  
MW 263.06 MI 31.10 MA 0.0798 MD 3.99 EM 13.22 GR 3.39

A 195

## 1-METHYL-3,5-DIACETYLAMINOPHENYLBORONIC ACID

CA 52. 14550000. UNKNOWCAL D 1.0411 NO3358.0 04444444 T -0.  
C 11 H 15 B 1 N 2 O 4  
MW 250.08 MI 30.48 MA 0.0777 MD 3.76 EM 14.74 GR 3.70

## PENYL O-PHENYLENE BORATE

CA 53. 21900000. LIQUIDNO D 1.0576 NO 426.0 04444444 T -0.  
C 11 H 13 B 1 O 3  
MW 206.06 MI 27.85 MA 0.0861 MD 4.64 EM 12.58 GR 3.89

## DIISOTRIMETHYLENEIMETHYLENE(IP-CHLOROPHENYLSULFONIUM FLUOROBORATE

CA 52. 40030000. SOLIDEST D 1.1633 NO3359.0 04444444 T 231.00  
C 11 H 16 B 1 CL 1 F 4 N 2 S 1  
MW 350.60 MI 35.68 MA 0.0756 MD 3.59 EM 210.47 GR 44.72

## CHLORISOBUTOXY-O-TOLYLBORANE

CA 50. 18960000. LIQUIDNO D 0.7928 MD 248.0 04444444 T -0.  
C 11 H 16 B 1 O 2  
MW 210.93 MI 28.07 MA 0.0797 MD 4.54 EM 207.76 GR 38.95

## CHLORISOBUTOXY-P-TOLYLBORANE

CA 52. 62380000. LIQUIDNO D 0.9919 MD 493.0 04444444 T -0.  
C 11 H 16 B 1 O 2  
MW 210.93 MI 28.07 MA 0.0797 MD 4.54 EM 207.76 GR 38.96

## BUTADYCHLORO(IP-METHOXYPHENYL)BORINE

CA 53. 17940000. LIQUIDNO D 1.0360 MD 425.0 04444444 T -0.  
C 11 H 16 B 1 O 2  
MW 226.53 MI 29.06 MA 0.0801 MD 4.41 EM 207.76 GR 37.23

## 4-DIETHYLAMINO-META-TOLUENE-DIAZONIUM TETRAFLUOROBORATE

CA 51. 12030000. UNKNOWCAL D 1.0301 MD3360.0 04444444 T -0.  
C 11 H 16 B 1 F 4 N 3  
MW 277.09 MI 34.25 MA 0.0767 MD 3.58 EM 16.84 GR 3.77

## DIISOTRIMETHYLENEIMETHYLENE(IP-NITROPHENYLSULFONIUM FLUOROBORATE

CA 52. 90030000. SOLIDEST D 1.1279 NO3361.0 04444444 T 209.50  
C 11 H 16 B 1 F 4 N 3 O 2  
MW 341.15 MI 37.53 MA 0.0747 MD 3.19 EM 17.61 GR 3.51

## IP-THYLIMINOIMETHYLENE PHENYLBORONATE

CA 53. 17140000. SOLIDEST D 1.0000 NO1176.0 04444444 T 105.50  
C 11 H 16 B 1 N 1 O 2  
MW 205.08 MI 28.93 MA 0.0850 MD 4.70 EM 14.39 GR 4.23

## TETRAHYDRO-2-BENZYL-1,3,6,2-DIOXAZABOROCINE

CA 51. 65320000. SOLIDEST D 1.0000 NO1177.0 04444444 T 212.00  
C 11 H 16 B 1 N 1 O 2  
MW 205.08 MI 28.93 MA 0.0850 MD 4.70 EM 14.39 GR 4.23

A 194

## TRIVINYLBORINE-PYRIDINE

CA 54. 78220000. SOLIDEST D 0.9300 NO1174.0 04444444 T -0.  
C 11 H 14 B 1 N 1  
MW 171.06 MI 24.95 MA 0.0817 MD 4.58 EM 12.92 GR 3.23

## P-(2-CARBOXY-2-ACETAMINOMETHYL)-BENZENEBORONIC ACID

CA 52. 10920000. SOLIDEST D 1.1001 NO3351.0 04444444 T 169.00  
C 11 H 14 B 1 N 1 O 3  
MW 251.06 MI 29.90 MA 0.0789 MD 3.70 EM 12.93 GR 3.41

## BORANE-NAPHTHYLMETHYLPHOSPHINE

CA 54. 15210000. UNKNOWCAL D 1.0730 NO3352.0 04444444 T -0.  
C 11 H 14 B 1 P 1  
MW 188.03 MI 25.21 MA 0.0847 MD 4.81 EM 13.67 GR 4.70

## B-ETHYL-3-METHYL BORANIDAN

CA 54. 67240000. LIQUIDEST D 0.8500 NO1175.0 04444444 T -0.  
C 11 H 15 B 1  
MW 158.06 MI 24.88 MA 0.0806 MD 4.86 EM 12.58 GR 4.07

## 1-PHENYLBORACYCLOPENTANE

CA 54. 24652000. LIQUIDNO D 0.9239 NO3353.0 04444444 T -0.  
C 11 H 13 B 1  
MW 158.06 MI 24.88 MA 0.0874 MD 5.28 EM 12.58 GR 4.63

## BIRON TRIFLUORIDE-1N-TERP-BUTYL-ALPHA-PHENYL-NITRONE

CA 52. 72640000. UNKNOWCAL D 1.0550 NO3354.0 04444444 T -0.  
C 11 H 15 B 1 F 3 N 1 O 1  
MW 245.07 MI 30.81 MA 0.0799 MD 3.89 EM 13.88 GR 3.60

## BIRON TRIFLUORIDE-N,N-DIETHYLBENZAMIDE

CA 54. 44830000. SOLIDEST D 1.0550 NO3355.0 04444444 T 100.50  
C 11 H 15 B 1 F 3 N 1 O 1  
MW 245.07 MI 30.81 MA 0.0799 MD 3.89 EM 13.88 GR 3.60

## 4-METHOXY-3,5-DIETHYLBENZENE DIAZONIUM TETRAFLUOROBORATE

CA 54. 11480000. UNKNOWCAL D 1.0819 NO3356.0 04444444 T -0.  
C 11 H 15 B 1 F 4 N 2 O 1  
MW 276.08 MI 33.17 MA 0.0777 MD 3.52 EM 15.03 GR 3.52

## 2,3,4,6-TETRAMETHYLBENZALDEHYDE TETRAFLUOROBORATE

CA 54. 32820000. LIQUIDAL D 1.0821 NO3357.0 04444444 T -0.  
C 11 H 15 B 1 F 4 O 1  
MW 250.06 MI 31.03 MA 0.0809 MD 3.91 EM 12.87 GR 3.36

## 9-PARA-ANISYL-4,6-DIOX-1-AZ4-8-BURABICYCL(11,3,0)OCTANE

CA 51. 801300. 5570000. UNKNOWCAL D 1.0142 NO4399.0 04444444 T -0.  
C 11 H 15 B 1 N 1 O 3  
MW 220.07 MI 28.97 MA 0.0807 MD 4.16 EM 13.88 GR 3.79

A 196

## TETRAHYDRO-2-PARA-TOLYL-1,3,6,2-DIOXAZABOROCINE

CA 54. 11962000. SOLIDEST D 1.0000 NO1178.0 04444444 T 232.50  
C 11 H 16 B 1 N 1 O 2  
MW 205.08 MI 28.93 MA 0.0850 MD 4.70 EM 14.39 GR 4.23

## TETRAHYDRO-2-PARA-ANISYL-1,3,6,2-DIOXAZABOROCINE

CA 50. 55500000. SOLIDEST D 0.9771 NO3362.0 04444444 T 217.00  
C 11 H 16 B 1 N 1 O 3  
MW 221.08 MI 29.92 MA 0.0797 MD 4.26 EM 14.39 GR 3.83

## BIS(1-CHLOROPROPYLOXY)CHLOROBORINE-PYRIDINE

CA 51. 94780000. UNKNOWCAL D 1.1538 NO3363.0 04444444 T -0.  
C 11 H 17 B 1 CL 2 N 1 O 2  
MW 312.46 MI 33.53 MA 0.0746 MD 3.78 EM 598.46 GR 133.12

## 2-ETHYLMETHYLENE HYDROGEN TETRAFLUOROBORATE COMPLEX

CA 54. 32820000. LIQUIDAL D 0.9862 NO3364.0 04444444 T -15.00  
C 11 H 16 B 1 F 4  
MW 236.08 MI 32.04 MA 0.0806 MD 4.28 EM 14.34 GR 3.61

## ETHYLMETHYLENE TETRAFLUOROBORATE

CA 51. 73170000. LIQUIDAL D 0.9862 NO3365.0 04444444 T -75.00  
C 11 H 17 B 1 F 4  
MW 236.08 MI 32.04 MA 0.0806 MD 4.28 EM 14.34 GR 3.61

## ISD-BUTYL METHYLPHENYLBORINATE

CA 54. 86840000. LIQUIDNO D 0.8440 MD 498.0 04444444 T -0.  
C 11 H 17 B 1 O 1  
MW 176.08 MI 27.87 MA 0.0852 MD 5.20 EM 14.05 GR 4.30

## BUTYL-ORINDO-TOLYLBORONIC ACID

CA 54. 10970000. UNKNOWCAL D 0.8900 NO1179.0 04444444 T -0.  
C 11 H 17 B 1 O 1  
MW 176.08 MI 27.87 MA 0.0849 MD 5.18 EM 14.05 GR 4.28

## DIETHYL PARATOLYLBORONATE

CA 53. 42700000. LIQUIDEST D 0.7928 MD1180.0 04444444 T -0.  
C 11 H 17 B 1 O 2  
MW 192.08 MI 28.86 MA 0.0891 MD 5.01 EM 14.05 GR 4.14

## DIETHOXY-O-TOLYLBORANE

CA 44. 10210000. LIQUIDNO D 0.9351 MD 249.0 04444444 T -0.  
C 11 H 17 B 1 O 2  
MW 192.08 MI 28.86 MA 0.0848 MD 4.99 EM 14.05 GR 4.12

## DIETHOXY-M-TOLYLBORANE

CA 51. 99700000. UNKNOWCAL D 1.3386 MD 250.0 04111111 T -0.  
C 11 H 17 B 1 O 2  
MW 192.08 MI 28.86 MA 0.1211 MD 7.14 EM 14.05 GR 5.90

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1-ANYL-2-METHYLORNDIACLOPENTANE
  CA 56.20440RGORGAN.UNKNOWEST D 0.8500 MD1838.0 04444444 T -0.
  C 11 H 23 D 1
  Mw 186.14 MI 34.85 MA 0.1082 MD 7.01 EM 19.92 GR 6.06

BUTOXYBUTYLPROPYLBORINE
  CA 56.14107RGORGAN.LIQUIDRND D 0.7888 MD 253.0 04444444 T -0.
  C 11 H 25 B 1 O 1
  Mw 184.14 MI 35.87 MA 0.0928 MD 6.45 EM 19.92 GR 5.14

METHYL DEANYLBORONATE
  CA 56.14107RGORGAN.LIQUIDEST D 0.7900 MD1839.0 04444444 T -0.
  C 11 H 25 B 1 O 1
  Mw 184.14 MI 35.87 MA 0.0927 MD 6.46 EM 19.92 GR 5.15

DIBUTOXYPROPYLBORINE
  CA 59.16646RGORGAN.LIQUIDRND C 0.8132 MD 254.0 04444444 T -0.
  C 11 H 25 B 1 O 2
  Mw 200.14 MI 36.86 MA 0.0904 MD 6.13 EM 19.92 GR 4.89

ISOPROPYL DIBUTYLTHIOBORINATE
  CA 56.18330RGORGAN.LIQUIDRND O 0.8525 MD1840.0 04104441 T -0.
  C 11 H 25 B 1 S 1
  Mw 200.20 MI 36.18 MA 0.0928 MD 6.61 EM 20.47 GR 5.30

DIBUTYL PROPYLDITHIOBORONATE
  CA 56.31408RGORGAN.LIQUIDRND D 0.9108 MD 465.0 04444444 T -0.
  C 11 H 25 B 1 S 2
  Mw 232.20 MI 37.46 MA 0.0885 MD 5.90 EM 21.43 GR 5.06

BIMANE-HEXYLPENTYLPHOSPHINE
  CA 56.15121RGORGAN.UNKNOWNCAL O 0.8065 MD3373.0 04444444 T -0.
  C 11 H 26 B 1 P 1
  Mw 200.12 MI 37.21 MA 0.0903 MD 6.31 EM 22.47 GR 5.46

DIBUTYLCHLOROBORANE-TRIMETHYLAMINE
  CA 49.10972RGORGAN.UNKNOWEST D 0.9000 MD1189.0 04444444 T -0.
  C 11 H 27 B 1 CL 1 N 1
  Mw 219.62 MI 39.15 MA 0.0986 MD 6.66 EM 216.91 GR 93.54

2,4-DIBUTYL-6-CHLORO-1,3,5-TRIMETHYLBORAZINE
  CA 53.31408RGORGAN.LIQUIDCAL D 0.8988 MD3374.0 04444444 T -0.
  C 11 H 27 B 1 CL 1 N 3
  Mw 269.28 MI 43.23 MA 0.0869 MD 5.43 EM 221.85 GR 44.59

TRIMETHOXYBORANE-DIBUTYLAMINE
  CA 47.7357RGORGAN.SOLIDCAL D 0.7977 MD3375.0 04444444 T -0.
  C 11 H 28 B 1 N 3 O 3
  Mw 233.47 MI 41.92 MA 0.0984 MD 5.77 EM 235.20 GR 4.78

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3-SUBSTITUTED TRIPTYCH-BOROKAZOLIOINE
CA 34.23468ORGAN.SOLIDAL D 0.7443 NO3371.0 04444444 T 189.30
C 11 M 21 B 1 N 2 0 4
MW 190.12 MI 30.98 MA 0.0820 MD 4.86 EM 19.14 GR 6.25

METHYL O-CYCLOPENTYLBORINATE
CA 34.1107ORGAN.LIQUIDEI D 0.8900 NO1837.0 04444444 T -0.
C 11 M 21 B 1 O 1
MW 180.11 MI 31.87 MA 0.0949 MD 6.24 EM 18.98 GR 5.05

O-ISOXY-1-PROPYNYLBORANE
AC3132. ORGAN.UNKNOWNEI D 0.8300 NO1185.0 04444444 T -0.
C 11 M 21 B 1 O 2
MW 196.11 MI 32.86 MA 0.0828 MD 5.35 EM 18.98 GR 4.33

CYANODISOPENTYLBORINONE
CA 34.1266ORGAN.LIQUIDEI D 0.8800 NO1186.0 04444444 T -0.
C 11 M 22 B 1 N 1
MW 179.12 MI 32.95 MA 0.0975 MD 6.51 EM 18.79 GR 5.56

3-SUBSTITUTED TRIPTYCH-BOROKAZOLIOINE
CA 34.24348ORGAN.SOLIDAL D 0.8074 NO3372.0 04444444 T 136.00
C 11 M 23 B 1 N 2 0 3
MW 242.14 MI 37.99 MA 0.0820 MD 4.96 EM 20.61 GR 4.45

ALLYL DIBUTYLBORINATE
CA 32.8999ORGAN.UNKNOWNEI D 0.8100 NO1187.0 04444444 T -0.
C 11 M 21 B 1 O 1
MW 182.12 MI 33.87 MA 0.0907 MD 6.16 EM 18.45 GR 4.94

ALLYLODIBUTYLBORINATE
PB 1111892ORGAN.UNKNOWNEI D 0.8100 NO1188.0 04444444 T -0.
C 11 M 23 B 1 O 2
MW 198.12 MI 34.86 MA 0.0858 MD 5.66 EM 18.45 GR 4.56

DIBUTYL 2-PROPYNYLBORONATE
CA 33.8990ORGAN.LIQUIDKNO D 0.8413 NO 424.0 04414444 T -0.
C 11 M 23 B 1 O 2
MW 198.12 MI 34.86 MA 0.0892 MD 5.88 EM 18.45 GR 4.72

POLYMERIC METHYLETHYLPOLYSPINODIETHYLBORANE
CA 34.13404ORGAN.POLYMERAL D 1.0941 NO4142.0 04444444 T -0.
C 11 M 26 B 1 P 1
MW 198.11 MI 35.21 MA 0.1171 MD 7.98 EM 21.00 GR 6.99

DIBUTYLPROPYLBORINONE
CA 34.1028ORGAN.LIQUIDKNO D 0.7484 NO 252.0 04444444 T -0.
C 11 M 25 B 1
MW 186.15 MI 34.86 MA 0.0935 MD 6.70 EM 19.92 GR 5.34

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CHLORIDE(12,6-TRICHLOROPHENOXYPYBORANE  
CA 91, 2777.0ORGAN. SOLIDCAL O 1.9224 MD93376.0 04444444 Y 119.00  
C 12 M 4 R 1CL T O 2  
MW 439.18 NI 23.07 MA 0.0660 MD 1.09 EM1365.63 GR 399.69

TRIS(4-TRIFLUORO-2,3-DIFLUOROBUTYL)BORATE  
CA 99, 2411.0ORGAN.UNKNOWCAL D 1.4312 MD93377.0 04444444 Y -0.  
C 12 M 6 R 1 F 21 O 1  
MW 608.00 NI 40.75 MA 0.0663 MD 0.85 EM 7.93 GR 1.07

3-CHLORO-4-(PARA-NITROPHENYL)AZOBENZENE DIAZONIUM FLUOSORATE  
CA 92,1919.0ORGAN. SOLIDCAL O 1.3190 MD93378.0 04444444 Y 123.00  
C 12 M 7 R 1CL 1 F 4 N 3 O 2  
MW 379.50 NI 31.30 NA 0.0664 MD 1.41 EM 206.86 GR 43.77

2-TRIFLUOROMETHYLBORANE OXIDE  
CA 52,10925.0ORGAN.UNKNOWCAL D 1.3392 MD93379.0 04444444 Y -0.  
C 12 M 3 R 1 O 1 S 2  
MW 242.13 NI 21.28 MA 0.0819 MD 2.68 EM 8.24 GR 3.16

6-CHLORO-9-ACENAPHTHENE(10-AMINUM) FLUOSORATE  
CA 92, 6249.0ORGAN.UNKNOWCAL D 1.3290 MD93380.0 04444444 Y -0.  
C 12 M 8 R 1CL 1 F 4 N 2  
MW 302.47 NI 27.19 MA 0.0720 MD 2.12 EM 204.36 GR 34.08

DIBENZO(1,3-DI)BORONUM FLUOSORATE  
CA 92, 173.0ORGAN.UNKNOWCAL D 1.3879 MD93381.0 04444444 Y -0.  
C 12 M 8 R 1CL 1 F 8  
MW 312.47 NI 27.63 MA 0.0739 MD 2.14 EM 202.39 GR 34.14

CHLORIDE(1,2,4,5-TETRACHLOROPHENOXYPYBORANE  
CA 91, 2777.0ORGAN. SOLIDCAL O 1.3246 MD93382.0 04444444 Y -0.  
C 12 M 8 R 1CL 1 M 2 O 6  
MW 322.49 NI 27.97 NA 0.0692 MD 1.98 EM 204.07 GR 30.49

CHLORIDE(1,2,4,5-TETRACHLOROPHENOXYPYBORANE  
CA 91, 2777.0ORGAN. SOLIDCAL O 1.3246 MD93383.0 04444444 Y 188.50  
C 12 M 8 R 1CL 1 M 2 O 6  
MW 322.49 NI 27.97 NA 0.0692 MD 1.98 EM 204.07 GR 30.49

10-CHLORO-10,9-BOROXAROPHENANANTHRENE  
CA 54, 4608.0ORGAN.UNKNOWEST D 1.2500 MD10190.0 04414444 Y -0.  
C 12 M 4 R 1CL 1 O 1  
MW 214.47 NI 40.88 MA 0.0733 MD 2.81 EM 201.90 GR 70.88

9-CHLORO-9,10-BOROXAROPHENANANTHRENE  
CA 54,13339.0ORGAN. SOLIDEST D 1.2000 MD10493.0 04444444 Y -0.  
C 12 M 4 R 1CL 1 O 1  
MW 214.47 NI 20.88 MA 0.0704 MD 2.70 EM 201.90 GR 68.04

A 201

POTASSIUM ORTHOXYDROXYPHENYL-ORTHOPHENYLENE BORATE  
CA 53.212500ORGAN. UNKNOWCAL D 1.4070 NO3384.0 04444444 T -0.  
C 12 H 8 B 1 K 1 D 4  
MW 266.1041 MI 24.19 MA 0.0771 MD 2.55 EM 29.72 GR 5.47

2-OROXOBYL-4-ORTHONITROPHENYLDIAZOPHENOL  
CA 51.145800ORGAN. SOLIDCAL D 1.2363 NO3385.0 04444444 T 237.00  
C 12 H 8 B 1 N 3 D 4  
MW 269.104 MI 23.84 MA 0.0716 MD 2.21 EM 10.70 GR 2.96

2-OROXOBYL-4-IMBTA-NITROPHENYLDIAZOPHENOL  
CA 51.145800ORGAN. SOLIDCAL D 1.2363 NO3386.0 04444444 T 220.50  
C 12 H 8 B 1 N 3 D 4  
MW 269.104 MI 23.84 MA 0.0716 MD 2.21 EM 10.70 GR 2.96

2-OROXOBYL-4-IPARA-NITROPHENYLDIAZOPHENOL  
CA 51.145800ORGAN. SOLIDCAL D 1.2363 NO3387.0 04444444 T 242.00  
C 12 H 8 B 1 N 3 D 4  
MW 269.104 MI 23.84 MA 0.0716 MD 2.21 EM 10.70 GR 2.96

DIPHENYLBENZODICHLOROBORINE  
CA 54.142900ORGAN. LIQUIDCAL D 1.3788 NO3388.0 04444444 T -0.  
C 12 H 8 B 2 CL 0  
MW 319.06 MI 24.46 MA 0.0737 MD 2.41 EM 706.63 GR 236.98

ORTHOPHENYLENE PYROBORATE  
CA 53.219050ORGAN. UNKNOWCAL D 1.3419 NO3389.0 04444444 T -0.  
C 12 H 8 B 2 D 0  
MW 253.84 MI 24.61 MA 0.0784 MD 2.35 EM 8.86 GR 2.82

2,2-PRIME-ORXYBIS(1,3,2-BENZODIOXABOROLE  
CA 47.620800ORGAN. UNKNOWCAL D 1.3419 NO3390.0 04444444 T -0.  
C 12 H 8 B 2 O 5  
MW 253.84 MI 24.61 MA 0.0784 MD 2.35 EM 8.86 GR 2.82

1-CHLORO-9-AZA-10-BORAPHENANTHRANE  
CA 53.136800ORGAN. SOLIDEST D 0.9500 NO1191.0 04444444 T -0.  
C 12 H 9 B 1 CL 1 N 1  
MW 213.49 MI 21.96 MA 0.0589 MD 2.41 EM 203.72 GR 54.80

2-DIPHENYLBENZODICHLOROBORINE  
CA 54.884300ORGAN. LIQUIDEST D 1.1300 NO1192.0 04444444 T -0.  
C 12 H 9 B 1 CL 2  
MW 234.04 MI 22.09 MA 0.0691 MD 2.65 EM 397.08 GR 117.08

CHLORODICHLOROPHENYLBORANE  
CA 51.254400ORGAN. LIQUIDAND D 1.1450 NO 489.0 04444444 T -0.  
C 12 H 9 B 1 CL 2  
MW 234.04 MI 22.09 MA 0.0688 MD 2.64 EM 397.08 GR 116.97

A 203

ORTHOPHENYLENE BENZENEDRONATE  
CA 53.219050ORGAN. SOLIDEST D 1.0500 NO1196.0 04444444 T 111.00  
C 12 H 9 B 1 O 2  
MW 196.02 MI 21.67 MA 0.0699 MD 2.90 EM 8.19 GR 2.64

IPHENOXYPHENYLBORON OXIDE  
CA 56.859800ORGAN. UNKNOWEST D 1.0100 NO1197.0 04444444 T -0.  
C 12 H 9 B 1 O 2  
MW 196.02 MI 21.67 MA 0.0673 MD 4.79 EM 8.19 GR 2.94

9-HYDROXY-9,10-BOROXARDOPHENANTHRANE  
CA 56.154000ORGAN. LIQUOLEST D 1.1300 NO1844.0 04444444 T 201.50  
C 12 H 9 B 1 O 2  
MW 196.02 MI 21.67 MA 0.0792 MD 3.13 EM 8.19 GR 2.84

2-DIBENZOTHIOPHENE BORONIC ACID  
CA 53.113800ORGAN. SOLIDCAL D 1.3011 NO3396.0 04444444 T 277.50  
C 12 H 9 B 1 O 3 S 1  
MW 228.108 MI 22.97 MA 0.0789 MD 3.04 EM 8.95 GR 3.08

4-DIBENZOTHIOPHENE BORONIC ACID  
CA 53.113800ORGAN. SOLIDCAL D 1.3011 NO3397.0 04444444 T 339.00  
C 12 H 9 B 1 O 3 S 1  
MW 228.08 MI 22.97 MA 0.0789 MD 3.04 EM 8.95 GR 3.08

2-THIANTHRENE BORONIC ACID  
CA 52.104200ORGAN. SOLIDCAL D 1.3888 NO3398.0 04444444 T 215.50  
C 12 H 9 B 1 O 3 S 2  
MW 260.14 MI 24.27 MA 0.0789 MD 2.85 EM 9.71 GR 3.08

CYCLOC ESTER OF BENZENEBORONIC ACID WITH PYROGALLOL  
CA 53.219050ORGAN. UNKNOWEST D 1.0500 NO1198.0 04444444 T -0.  
C 12 H 9 B 1 O 3  
MW 212.02 MI 22.86 MA 0.0676 MD 2.68 EM 8.19 GR 2.44

PHENYL ORTHO-PHENYLENE BORATE  
CA 54.219050ORGAN. UNKNOWEST D 1.1000 NO1199.0 04444444 T -0.  
C 12 H 9 B 1 O 3 S 1  
MW 212.02 MI 22.86 MA 0.0708 MD 2.81 EM 8.19 GR 2.56

4-DIBENZOFURANBORONIC ACID  
CA 56.889200ORGAN. SOLIDEST D 1.1000 NO1200.0 04444444 T 256.50  
C 12 H 9 B 1 O 3  
MW 212.02 MI 22.86 MA 0.0708 MD 2.81 EM 8.19 GR 2.56

4-PHENOLSA THIIN BORONIC ACID  
CA 52.104200ORGAN. SOLIDCAL D 1.3055 NO3399.0 04444444 T 137.80  
C 12 H 9 B 1 O 3 S 1  
MW 266.08 MI 23.96 MA 0.0772 MD 2.90 EM 8.95 GR 2.88

A 202

BISIPARA-CHLOROPHENYLBORONIC ACID  
CA 53.219050ORGAN. SOLIDEST D 1.2500 NO1193.0 04444444 T 77.00  
C 12 H 9 B 1 CL 2 O 1  
MW 250.94 MI 23.08 MA 0.0492 MD 2.70 EM 397.08 GR 119.14

DICHLORODIPHENYLBORINE  
CA 53.145800ORGAN. LIQUIDCAL D 1.3681 NO3391.0 04444444 T -0.  
C 12 H 9 B 1 CL 2  
MW 250.94 MI 23.08 MA 0.0798 MD 2.88 EM 327.08 GR 130.40

BORON TRIFLUORIDE-1012-PYRIDYLBORONOTRIAZINE  
CA 53.102200ORGAN. SOLIDCAL D 1.2081 NO3392.0 04444444 T 307.50  
C 12 H 9 B 1 F 3 N 1  
MW 267.09 MI 23.93 MA 0.0753 MD 2.61 EM 10.25 GR 2.98

AZOBEZENE-4-DIAZONIUM TETRAFLUOROBORATE  
CA 53.187500ORGAN. UNKNOWCAL D 1.1823 NO3393.0 04444444 T -0.  
C 12 H 9 B 1 F 4 N 4  
MW 296.06 MI 24.13 MA 0.0761 MD 2.16 EM 12.80 GR 3.08

BISIPERFLUORO BUTYROXYBUTYL-BORONATE  
AD 46.113000ORGAN. UNKNOWCAL D 1.3231 NO4429.0 04444444 T -0.  
C 12 H 9 B 1 F 14 O 5  
MW 494.02 MI 41.71 MA 0.0673 MD 1.45 EM 9.23 GR 1.49

2-OROXOBYL-4-PHENYLDIAZOPHENOL  
CA 51.145800ORGAN. SOLIDCAL D 1.1788 NO3394.0 04444444 T 237.00  
C 12 H 9 B 1 N 2 O 3  
MW 224.04 MI 23.81 MA 0.0765 MD 2.85 EM 10.35 GR 3.28

5,6-DIHYDRO-5-HYDROXY-6-NITRODIBENZIC,1111,2124BORINE  
CA 56.772300ORGAN. SOLIDCAL D 1.1899 NO3395.0 04444444 T 360.00  
C 12 H 9 B 1 N 2 O 3  
MW 240.04 MI 24.80 MA 0.0740 MD 2.69 EM 10.35 GR 3.09

6-HYDROXY-(6-H)-DIBENZIC,1111,2124BORINE  
CA 56.460800ORGAN. SOLIDEST D 1.0800 NO1213.0 04004444 T -0.  
C 12 H 9 B 1 O 2  
MW 196.02 MI 21.67 MA 0.0719 MD 2.99 EM 8.19 GR 2.72

2-PHENYL-1,3,2-BENZODIOXABOROLE  
CA 49.115800ORGAN. SOLIDEST D 1.1000 NO1194.0 04444444 T 111.50  
C 12 H 9 B 1 O 2  
MW 196.02 MI 21.67 MA 0.0732 MD 3.04 EM 8.19 GR 2.77

10-HYDROXY PHENEBORONINE  
CA 56.884300ORGAN. SOLIDEST D 1.1000 NO1195.0 04444444 T 114.00  
C 12 H 9 B 1 O 2  
MW 196.02 MI 21.67 MA 0.0732 MD 3.04 EM 8.19 GR 2.77

A 204

ORTHODIPHENYLBORON-ORTHOPHENYLENE BORATE  
CA 53.217500ORGAN. UNKNOWCAL D 1.2402 NO3400.0 04444444 T -0.  
C 12 H 9 B 1 O 2  
MW 228.02 MI 23.65 MA 0.0775 MD 2.95 EM 8.20 GR 2.69

ORTHOPHENYLENE PHENYLDITHIOBORONATE  
CA 53.136800ORGAN. UNKNOWCAL D 1.3682 NO3401.0 04444444 T -0.  
C 12 H 9 B 1 S 2  
MW 228.14 MI 22.29 MA 0.0805 MD 3.25 EM 9.71 GR 3.51

1,1,3,5-HEPTAFLUOROPROPYLMETHYLENEBORAZINE  
AD233.519000ORGAN. LIQUIDCAL D 1.3217 NO4479.0 04444444 T -0.  
C 12 H 9 B 1 F 7 N 3  
MW 626.09 MI 51.93 MA 0.0860 MD 1.14 EM 15.76 GR 2.00

CHLORODIPHENYLBORANE  
CA 51.244400ORGAN. SOLIDAND D 1.1160 NO 299.0 04444444 T 200.00  
C 12 H 10 B 1 CL 1  
MW 200.44 MI 21.64 MA 0.0734 MD 3.35 EM 203.37 GR 88.19

DIPHENYL CHLORONIUM FLUOROBORATE  
CA 53.189200ORGAN. SOLIDCAL D 1.2619 NO3402.0 04444444 T -0.  
C 12 H 10 B 1 CL 1 F 4  
MW 276.44 MI 27.05 MA 0.0745 MD 2.75 EM 203.67 GR 55.97

2-IPARA-CHLOROPHENYL-1,3-DIHYDRO-(2H)-1,3,2-BENZODIAZABOROLE  
CA 54.150300ORGAN. UNKNOWCAL D 1.1744 NO3403.0 04444444 T -0.  
C 12 H 10 B 1 CL 1 N 2  
MW 228.50 MI 24.03 MA 0.0744 MD 3.10 EM 205.53 GR 63.63

5-CHLORO-1,3-DIHYDRO-2-PHENYL-12H-1,3,2-BENZODIAZABOROLE  
CA 54.150300ORGAN. SOLIDCAL D 1.1744 NO3404.0 04444444 T 183.50  
C 12 H 10 B 1 CL 1 N 2  
MW 228.50 MI 24.03 MA 0.0744 MD 3.10 EM 205.53 GR 63.63

CHLOROPHENYLBORINE  
CA 51.177300ORGAN. LIQUIDEST D 1.2000 NO1201.0 04444444 T -0.  
C 12 H 10 B 1 CL 1 O 1  
MW 216.49 MI 22.88 MA 0.0764 MD 3.34 EM 203.37 GR 87.90

PARA-CHLOROPHENYLBORON-2-PHENYLBORANE  
CA 51.154400ORGAN. LIQUIDEST D 1.2000 NO1202.0 04444444 T -0.  
C 12 H 10 B 1 CL 1 O 1  
MW 216.49 MI 22.88 MA 0.0764 MD 3.34 EM 203.37 GR 87.90

CHLORODIPHENYLBORANE  
CA 50.164200ORGAN. SOLIDEST D 1.1300 NO1203.0 04444444 T 117.90  
C 12 H 10 B 1 CL 1 O 2  
MW 232.49 MI 23.87 MA 0.0699 MD 2.93 EM 203.37 GR 59.54

A 205

## DIPHENYLBORON CHLORIDE

CA 52, 8810ORGAN, UNKNOWNCAL D 1.2404 NO3405.0 04444444 T -0.  
C 12 H 10 B 1 CL 1 O 4  
MW 264.49 MI 25.88 NA 0.0728 MD 2.05 EM 203.38 GR 57.87

## 1,2-DIPHENYLAZINO-DICHLOROBORINE

CA 53, 1368ORGAN, SOLIDEST D 1.2800 NO1204.0 04444444 T -0.  
C 12 H 10 B 1 CL 2 N 1  
MW 249.09 MI 24.16 NA 0.0728 MD 3.01 EM 328.90 GR 120.16

## DICHLORO-DIPHENYLAZINO-BORANE

CA 51, 11072ORGAN, SOLIDEST D 1.2300 NO1205.0 04144444 T 78.00  
C 12 H 10 B 1 CL 2 N 1  
MW 249.09 MI 24.16 NA 0.0728 MD 3.01 EM 398.40 GR 120.16

## SODIUM DIPHENYL-PARA-CHLOROPHENYL-DIHYDROXYBORATE

CA 50, 11944ORGAN, UNKNOWNCAL D 1.4960 NO3406.0 04444444 T -0.  
C 12 H 10 B 1 CL 2 NA 1 O 2  
MW 290.04 MI 26.28 NA 0.0728 MD 3.01 EM 401.71 GR 121.10

## MURON TRICHLORIDE-DIPHENYL ETHER

CA 52, 8648ORGAN, LIQUIDEST D 1.3600 NO1206.0 04444444 T -0.  
C 12 H 10 B 1 CL 3 O 1  
MW 287.40 MI 25.28 NA 0.0721 MD 2.85 EM 592.26 GR 168.01

## 9-AZA-10-BORAPHENANTHRENE

CA 54, 1368ORGAN, SOLIDEST D 1.0700 NO1207.0 04444444 T 64.50  
C 12 H 10 B 1 N 1  
MW 179.04 MI 21.76 NA 0.0783 MD 3.60 EM 10.00 GR 3.60

## 2-PHENYLBENZOTRIZIA-3-AZA-2-BOROLE

CA 53, 1368ORGAN, SOLIDEST D 1.0000 NO1208.0 04444444 T 105.50  
C 12 H 10 B 1 N 1 O 1  
MW 195.04 MI 22.75 NA 0.0703 MD 3.09 EM 10.00 GR 3.09

## 10-HYDROXY-10,9-BORAZAPHENANTHRENE

CA 54, 1723ORGAN, SOLIDEST D 1.1000 NO1209.0 04444444 T 192.50  
C 12 H 10 B 1 N 1 O 1  
MW 195.04 MI 22.75 NA 0.0773 MD 3.40 EM 10.00 GR 3.40

## 2-PHENYLBENZOTRIZIA-2-BOROLE

CA 53, 1368ORGAN, SOLIDEST D 1.1907 NO3407.0 04444444 T 155.00  
C 12 H 10 B 1 N 1 O 1  
MW 211.10 MI 23.06 NA 0.0783 MD 3.40 EM 10.76 GR 3.66

## 1,3-DIHYDROIMETA-NITROPHENYL-2H-1,3,2-BENZODIAZABORALE

CA 54, 1503ORGAN, SOLIDEST D 1.1099 NO3408.0 04444444 T 218.50  
C 12 H 10 B 1 N 3 O 2  
MW 239.06 MI 25.88 NA 0.0724 MD 2.80 EM 12.16 GR 3.40

A 207

## ORTHO-PHENOXYPHENYLBORONIC ACID

CA 54, 8842ORGAN, SOLIDEST D 1.0300 NO1218.0 04444444 T 114.00  
C 12 H 11 B 1 O 3  
MW 214.04 MI 24.66 NA 0.0729 MD 3.25 EM 9.66 GR 2.86

## BIS(PARA-HYDROXYPHENYL)BORANE

CA 54, 18418ORGAN, SOLIDEST D 1.1223 NO3411.0 04444444 T -0.  
C 12 H 11 B 1 O 4  
MW 230.04 MI 25.65 NA 0.0754 MD 3.23 EM 9.66 GR 2.84

## ORTHO-TOLYLDICHLOROBORANE, AMELINE

CA 51, 2777ORGAN, SOLIDEST D 1.1658 NO3412.0 04444444 T 52.50  
C 12 H 12 B 1 CL 2 N 1 O 1  
MW 261.07 MI 27.15 NA 0.0711 MD 3.14 EM 400.36 GR 104.02

## DIFLUOROPHENYLBORANE-PHENYLDIAMINE

CA 54, 10219ORGAN, SOLIDEST D 1.2000 NO1219.0 04444444 T 178.50  
C 12 H 12 B 1 F 2 N 1  
MW 219.06 MI 26.34 NA 0.0869 MD 3.96 EM 11.62 GR 3.83

## BORON TRIFLUORIDE-BISPHENOL

CA 53, 4177ORGAN, UNKNOWNEST D 1.2000 NO1220.0 04444444 T -0.  
C 12 H 12 B 1 F 3 O 2  
MW 256.05 MI 28.34 NA 0.0806 MD 3.39 EM 10.82 GR 3.00

## DIPHENYLAMINE TETRAFLUOROBORATE

CA 54, 11012ORGAN, SOLIDEST D 1.0811 NO3413.0 04444444 T 134.20  
C 12 H 12 B 1 F 4 N 1  
MW 257.06 MI 28.92 NA 0.0783 MD 3.04 EM 11.77 GR 2.98

## 1-DIMETHYLAMINO-4-NAPHTHALENEDIAZONIUM TETRAFLUOROBORATE

CA 54, 8988ORGAN, SOLIDEST D 1.0864 NO3414.0 04444444 T 123.00  
C 12 H 12 B 1 F 4 N 3  
MW 285.07 MI 31.06 NA 0.0700 MD 2.70 EM 13.92 GR 3.14

## POTASSIUM DIMYDROXYDIPHENYLBORATE

CA 50, 4813ORGAN, SOLIDEST D 1.1581 NO3415.0 04444444 T 68.50  
C 12 H 12 B 1 K 1 O 2  
MW 238.13 MI 26.23 NA 0.0768 MD 3.51 EM 32.65 GR 9.56

## AMINO-DIPHENYLBORINE

CA 54, 10512ORGAN, SOLIDEST D 1.0800 NO1221.0 04444444 T 141.50  
C 12 H 12 B 1 N 1  
MW 181.06 MI 23.76 NA 0.0838 MD 4.23 EM 11.47 GR 4.05

## METHYL ORTHOPHENYLENE BORATE-PYRIDINE

CA 53, 21906ORGAN, SOLIDEST D 1.047 NO3416.0 04444444 T 162.00  
C 12 H 14 B 1 N 1 O 3  
MW 229.04 MI 26.73 NA 0.0736 MD 3.30 EM 11.48 GR 3.10

A 206

## 1,3-DIHYDRO-5-NITRO-2-PHENYL-(2H)-1,3,2-BENZODIAZABORALE

CA 54, 1503ORGAN, SOLIDEST D 1.1099 NO3409.0 04444444 T 203.50  
C 12 H 10 B 1 N 3 O 2  
MW 239.06 MI 25.88 NA 0.0724 MD 2.80 EM 12.16 GR 3.40

## DIPHENYL BORANE

AD244, 6740ORGAN, SOLIDEST D 1.1973 NO4430.0 04144444 T 159.00  
C 12 H 10 B 2  
MW 175.05 MI 21.66 NA 0.0859 MD 3.96 EM 10.32 GR 4.09

## BIPHENYLDICHLOROBORINE

CA 54, 14259ORGAN, UNKNOWNEST D 1.1400 NO1210.0 04444444 T -0.  
C 12 H 11 B 1 CL 2  
MW 236.95 MI 24.09 NA 0.0698 MD 3.19 EM 398.53 GR 115.50

## BORON TRIFLUORIDE-DIPHENYLAMINE

NACN 37219ORGAN, SOLIDEST D 1.3000 NO1211.0 04444444 T -0.  
C 12 H 11 B 1 F 3 N 1  
MW 237.05 MI 26.63 NA 0.1015 MD 4.19 EM 10.96 GR 4.18

## 2-PHENYL-1,3-DIHYDROBENZOTRIZIA-3-BORADIAZOLE

CA 54, 1503ORGAN, SOLIDEST D 1.0000 NO1212.0 04444444 T 214.00  
C 12 H 11 B 1 N 2  
MW 194.06 MI 23.83 NA 0.0740 MD 3.41 EM 11.82 GR 3.67

## 8-AMINO-10,9-BORAZAPHENANTHRENE

CA 54, 1723ORGAN, SOLIDEST D 1.1400 NO1214.0 04444444 T 137.50  
C 12 H 11 B 1 N 2 O 1  
MW 210.06 MI 24.82 NA 0.0811 MD 3.60 EM 11.82 GR 3.86

## 3-NICOTINAMIDOPHENYLBORONIC ACID

CA 54, 13740ORGAN, SOLIDEST D 1.0862 NO3410.0 04444444 T 187.00  
C 12 H 11 B 1 N 2 O 1  
MW 242.06 MI 26.80 NA 0.0724 MD 2.97 EM 11.82 GR 3.20

## DIPHENYLBORONIC ACID

GR 13, 2270ORGAN, SOLIDEST D 1.0600 NO1215.0 04444444 T 264.00  
C 12 H 11 B 1 O 1  
MW 182.04 MI 22.68 NA 0.0793 MD 3.86 EM 9.88 GR 3.39

## 2-BIPHENYLBORONIC ACID

CA 54, 8443ORGAN, SOLIDEST D 1.1500 NO1216.0 04444444 T 121.50  
C 12 H 11 B 1 O 2  
MW 198.04 MI 23.67 NA 0.0828 MD 3.85 EM 9.66 GR 3.38

## 4-BIPHENYLDIHYDROXYBORANE

CA 54, 8349ORGAN, SOLIDEST D 1.1500 NO1217.0 04444444 T 231.50  
C 12 H 11 B 1 O 2  
MW 198.04 MI 23.67 NA 0.0828 MD 3.85 EM 9.66 GR 3.38

A 208

## AMMONIUM ORTHOHYDROXYPHENYL ORTHOPHENYLENE BORATE

CA 53, 21756ORGAN, SOLIDEST D 1.0641 NO3417.0 04444444 T -0.  
C 12 H 12 B 1 N 1 O 4  
MW 245.06 MI 27.72 NA 0.0725 MD 3.14 EM 11.48 GR 3.00

## POLYMERIC DI(DIPHENYLPHOSPHORYL)BORINE

CA 54, 13408ORGAN, POLYMERICAL D 1.3527 NO4443.0 04444444 T -0.  
C 12 H 12 B 1 P 1  
MW 198.02 MI 24.02 NA 0.0988 MD 4.96 EM 12.21 GR 5.03

## DIPHENYLPHOSPHINOBORINE

AD142, 0280ORGAN, SOLIDEST D 1.0902 NO4419.0 04444444 T 180.00  
C 12 H 12 B 1 P 1  
MW 198.02 MI 24.02 NA 0.0797 MD 3.98 EM 12.21 GR 4.05

## 1,2-BIS(PARA-CHLOROPHENYL)DIISOBUTANE

CA 54, 10918ORGAN, SOLIDEST D 1.2500 NO1222.0 04444444 T 116.00  
C 12 H 12 B 2 CL 2  
MW 288.78 MI 28.06 NA 0.0789 MD 3.83 EM 400.48 GR 121.26

## 4-AMINO-2-NITRO-BENZENEBORONIC AMHYDRIUM

CA 52, 14533ORGAN, UNKNOWNCAL D 1.1023 NO3418.0 04444444 T -0.  
C 12 H 12 B 2 N 4 O 7  
MW 345.90 MI 34.87 NA 0.0869 MD 2.30 EM 16.11 GR 3.09

## CHLORO-DIPHENYLBORINE-AMMONIA

CA 51, 8675ORGAN, SOLIDEST D 1.1000 NO1223.0 04444444 T 290.00  
C 12 H 11 B 1 CL 1 N 1  
MW 217.92 MI 25.96 NA 0.0791 MD 3.96 EM 206.85 GR 82.95

## PILANILINOBORANE

CA 51, 17561ORGAN, UNKNOWNEST D 1.0300 NO1224.0 04444444 T -0.  
C 12 H 13 B 1 N 2  
MW 198.07 MI 25.83 NA 0.0833 MD 4.19 EM 17.28 GR 4.28

## DIPHENYLBORONIC ACID-WATER

CA 50, 4813ORGAN, LIQUIDEST D 1.0300 NO1225.0 04444444 T -34.00  
C 12 H 13 B 1 O 2  
MW 200.06 MI 25.67 NA 0.0796 MD 4.03 EM 11.13 GR 3.45

## 1,2-CHLOROETHOXYDICHLOBORANE-BISPYRIDINE

CA 50, 7720ORGAN, UNKNOWNCAL D 1.2855 NO3419.0 04444444 T -0.  
C 12 H 14 B 1 CL 2 N 2 O 1  
MW 319.45 MI 31.42 NA 0.0782 MD 3.39 EM 597.36 GR 164.80

## PARATOLYLBORINE-PYRIDINE

CA 53, 4270ORGAN, SOLIDEST D 1.0500 NO1226.0 04444444 T 64.00  
C 12 H 14 B 1 N 1  
MW 183.07 MI 25.76 NA 0.0890 MD 4.84 EM 12.94 GR 4.47

A 209

BENZYLORINE-PYRIDINE  
CA 52. 712000000. SOLIDEST D 1.0500 NO1227.0 04444444 T 108.50  
C 12 M 14 B 1 N 1  
NM 183.07 MI 26.76 MA 0.0880 MD 4.84 EM 12.94 GR 4.47

ORTHU-METHOXYBENZYLORINE-PYRIDINE  
CA 53. 427000000. SOLIDEST D 1.0500 NO1228.0 04444444 T 88.50  
C 12 M 14 B 1 N 1  
NM 199.07 MI 26.75 MA 0.0880 MD 4.45 EM 12.94 GR 4.11

(PARA-METHOXYBENZYLORINE-PYRIDINE  
CA 53. 427000000. SOLIDEST D 1.0500 NO1229.0 04444444 T 78.50  
C 12 M 14 B 1 N 1  
NM 199.07 MI 26.75 MA 0.0880 MD 4.45 EM 12.94 GR 4.11

DIPHENYLORINIC ACID-AMMONIA  
CA 49. 884000000. SOLIDEST D 1.1000 NO1230.0 04444444 T 45.50  
C 12 M 14 B 1 N 1  
NM 199.07 MI 26.75 MA 0.0880 MD 4.66 EM 12.94 GR 4.31

4-PHENALINOL BUTYL-DIHYDROXYBORANE  
CA 50. 123000000. SOLIDEST D 0.9828 NO4480.0 04444444 T -0.  
C 12 M 14 B 1 N 1  
NM 247.07 MI 27.72 MA 0.0712 MD 3.35 EM 12.94 GR 3.10

DIPHENYLPHOSPHINE-BORANE  
CA 53. 152100000. UNKNOWN D 1.1217 NO3420.0 04444444 T -0.  
C 12 M 14 B 1 N 1  
NM 200.04 MI 26.02 MA 0.0880 MD 4.74 EM 13.68 GR 4.63

1,2-DIPHENYL DIORANE  
CA 54. 104100000. SOLIDEST D 1.0551 NO3421.0 04444444 T 82.00  
C 12 M 14 B 2  
NM 179.88 MI 25.66 MA 0.0907 MD 4.95 EM 13.25 GR 4.68

TRIS(BORONTRIPOLYIDE)-DIACETOACETIC ACID ANHYDRIDE  
CA 53. 188000000. UNKNOWN D 1.9425 NO3422.0 04444444 T -0.  
C 12 M 14 B 3 N 0  
NM 473.70 MI 45.17 MA 0.0771 MD 2.39 EM 15.32 GR 2.61

2-CHLORO-1-ETHYL-3,3-DIMETHYL-1,3-DIINDOLIN FLUORIDE  
CA 52. 729800000. LIQUID D 1.1739 NO3423.0 04444444 T -0.  
C 12 M 14 B 1 F 4 N 1  
NM 299.84 MI 33.12 MA 0.0792 MD 3.59 EM 208.41 GR 49.80

CYCLOC ESTER OF BENZENEBORONIC ACID WITH CIS-1,2-CYCLOHEXANEDIOL  
CA 52. 128000000. SOLIDEST D 1.0000 NO1231.0 04444444 T 98.50  
C 12 M 14 B 1 D 2  
NM 204.07 MI 27.67 MA 0.0825 MD 4.67 EM 12.60 GR 3.75

A 211

2,2,2-TRICHLORO-1-BUTYL BORATE  
CA 51. 103900000. SOLIDEST D 1.4555 NO3429.0 04444444 T 184.00  
C 12 M 14 B 3 ICL 4 D 5  
NM 540.21 MI 42.40 MA 0.0889 MD 2.92 EM 1764.81 GR 286.41

ETHYLENEDIETHYLENE PHENYLBORONATE  
CA 53. 171400000. SOLIDEST D 1.0000 NO1237.0 04444444 T 97.50  
C 12 M 18 B 1 N 1 D 2  
NM 219.10 MI 31.74 MA 0.0873 MD 4.95 EM 15.88 GR 4.36

TETRAHYDRO-2-PHENYL-6-(2-HYDROXY-ETHYL)-1,3,5,7-2-DIOXAZABORACINE  
CA 53. 118900000. LIQUID D 0.9496 NO3430.0 04444444 T 115.50  
C 12 M 18 B 1 N 1 D 8  
NM 239.10 MI 32.73 MA 0.0796 MD 4.38 EM 15.88 GR 3.86

TRIS(PYRROLIDINE)BORANE  
CA 53. 102100000. SOLIDEST D 1.1900 NO1238.0 04444444 T 49.00  
C 12 M 18 B 1 N 3  
NM 219.12 MI 31.40 MA 0.1027 MD 3.80 EM 18.03 GR 3.81

CALCIUM TRIHYDROXYPHENYLBORATE  
CA 51. 188200000. SOLIDEST D 1.2729 NO3431.0 04444444 T -0.  
C 12 M 18 B 2 C 1 D 6  
NM 320.00 MI 37.18 MA 0.0891 MD 4.31 EM 20.19 GR 4.84

BIS(BUTYLTRIPOLYACETOXY)BORONOXIDE  
CA 53. 278500000. SOLIDEST D 1.1449 NO3432.0 04444444 T 86.50  
C 12 M 18 B 2 F 6 D 3  
NM 377.92 MI 42.35 MA 0.0773 MD 3.28 EM 16.64 GR 3.04

HEXAMETHYLPHENYL HYDROGEN TETRAFLUOROBORATE  
CA 50. 819300000. SOLIDEST D 1.0452 NO3433.0 04444444 T -0.  
C 12 M 18 B 1 F 6  
NM 250.10 MI 34.85 MA 0.0877 MD 4.78 EM 15.82 GR 3.98

BUTYL ETHYLPHENYLBORINATE  
CA 49. 102100000. LIQUID D 0.8940 NO 468.0 04444444 T -0.  
C 12 M 18 B 1 D 1  
NM 190.10 MI 30.68 MA 0.0869 MD 5.38 EM 15.53 GR 4.40

ISO-BUTYL ETHYLPHENYLBORINATE  
CA 54. 888400000. LIQUID D 0.8923 NO 449.0 04444444 T -0.  
C 12 M 18 B 1 D 1  
NM 190.10 MI 30.68 MA 0.0867 MD 5.37 EM 15.53 GR 4.39

AUTOXYETHYLPHENYLBORANE  
CA 49. 102100000. LIQUID D 0.8940 NO 256.0 04444444 T -0.  
C 12 M 18 B 1 D 1  
NM 190.10 MI 30.68 MA 0.0869 MD 5.38 EM 15.53 GR 4.40

A 210

CYCLOC ESTER OF BENZENEBORONIC ACID WITH TRANS-1,2-CYCLOHEXANEDIOL  
CA 52. 128000000. SOLIDEST D 1.0000 NO1232.0 04444444 T 102.50  
C 12 M 15 B 1 D 3  
NM 202.07 MI 27.67 MA 0.0825 MD 4.47 EM 12.60 GR 3.75

BORON METHACRYLATE  
CA 49. 910700000. UNKNOWN D 1.1201 NO3424.0 04444444 T -0.  
C 12 M 15 B 1 D 3  
NM 266.07 MI 31.63 MA 0.0802 MD 3.60 EM 12.60 GR 3.20

ETHYL(2,4,6-TRIMETHYLPHENYL)TRIMETHYL TETRAFLUOROBORATE  
CA 50. 147720000. SOLIDEST D 1.0620 NO3425.0 04444444 T 170.50  
C 12 M 18 B 1 F 6 N 1  
NM 281.02 MI 32.92 MA 0.0807 MD 3.92 EM 14.70 GR 3.60

IMINOETHYLENE PARAVINYLPHENYLBORONATE  
CA 53. 160300000. UNKNOWN D 1.1600 NO1233.0 04444444 T -0.  
C 12 M 18 B 1 N 1 D 2  
NM 217.09 MI 29.74 MA 0.0921 MD 3.15 EM 14.41 GR 4.64

AMMONIUM DIHYDROXYDIIPHENYLBORATE  
CA 50. 141800000. SOLIDEST D 1.2000 NO1234.0 04444444 T 109.50  
C 12 M 18 B 1 N 1 D 2  
NM 217.09 MI 29.74 MA 0.0990 MD 3.33 EM 14.41 GR 4.80

3-SUBSTITUTED TRIPYCH-BORONAZOLIDINE  
CA 54. 246810000. SOLIDEST D 1.0177 NO3426.0 04444444 T 228.50  
C 12 M 18 B 1 N 1 D 3  
NM 233.07 MI 30.73 MA 0.0808 MD 4.21 EM 14.41 GR 3.79

1-PHENYL-3-METHYLBORACYCLOPENTANE  
CA 54. 246520000. LIQUID D 0.9083 NO3427.0 04444444 T -0.  
C 12 M 17 B 1  
NM 172.09 MI 27.67 MA 0.0880 MD 3.40 EM 14.06 GR 4.47

1-(ORTHU-TOLYL)BORACYCLOPENTANE  
CA 54. 246520000. LIQUID D 0.9370 NO3428.0 04444444 T -0.  
C 12 M 17 B 1  
NM 172.09 MI 27.69 MA 0.0908 MD 3.58 EM 14.06 GR 4.61

1,1,8-TRIMETHYLTRIMETHYLENE BENZENEBORONATE  
CA 54. 798400000. UNKNOWN D 0.9500 NO1235.0 04444444 T -0.  
C 12 M 17 B 1 D 2  
NM 204.09 MI 29.67 MA 0.0832 MD 4.77 EM 14.06 GR 3.94

2-PHENYL-4,4,8,8-TETRAMETHYL-1,3,2-DIOXABOROLANE  
CA 49. 115800000. LIQUID D 0.9800 NO1236.0 04444444 T -0.  
C 12 M 17 B 1 D 2  
NM 204.09 MI 29.67 MA 0.0858 MD 4.92 EM 14.06 GR 4.07

A 212

DIISOPROPYL PHENYLBORONATE  
CA 52. 142000000. LIQUID D 0.9153 NO 469.0 04444444 T -0.  
C 12 M 14 B 1 N 1 D 2  
NM 206.10 MI 31.67 MA 0.0847 MD 3.08 EM 15.53 GR 4.15

PHENYL(DIPROPYLBORANE  
CA 54. 102100000. LIQUID D 0.9241 NO 237.0 04444444 T -0.  
C 12 M 14 B 1 D 2  
NM 206.10 MI 31.67 MA 0.0880 MD 3.16 EM 15.53 GR 4.22

3,5-DIHYDROXYTRIMETHYLENE-1,1,2-CYCLOHEXYLIDENE-D-GLUCOFURANOSIDE  
CA 46. 499600000. SOLIDEST D 1.0942 NO3434.0 04444444 T 146.50  
C 12 M 19 B 1 D 7  
NM 286.10 MI 36.62 MA 0.0844 MD 4.38 EM 15.54 GR 3.98

BENZENDORONIL ACID-FRUCTOSE  
CA 52. 149500000. UNKNOWN D 1.1193 NO3435.0 04444444 T -0.  
C 12 M 19 B 1 D 4  
NM 302.10 MI 37.61 MA 0.0736 MD 4.23 EM 15.54 GR 3.66

PHENYL DIPROPYLBORONATE  
CA 54. 261000000. LIQUID D 0.9252 NO 236.0 04444444 T -0.  
C 12 M 14 B 1 N 1 D 2  
NM 206.10 MI 30.99 MA 0.0839 MD 3.14 EM 16.29 GR 4.40

DICHOLOPHENYLBORONATE-TRIMETHYLAMINE  
CA 54. 888500000. SOLIDEST D 1.1500 NO1239.0 04444444 T 82.00  
C 12 M 20 B 1 ICL 2 N 1  
NM 260.03 MI 34.16 MA 0.0910 MD 5.33 EM 406.23 GR 108.21

DIETHYL(1-ETHYLAMINO)BORANE  
CA 54. 874200000. LIQUID D 0.8800 NO1240.0 04444444 T -0.  
C 12 M 20 B 1 N 1  
NM 189.12 MI 31.76 MA 0.0890 MD 5.61 EM 17.34 GR 4.86

ISOBUTOXYDIETHYLENEDIAMINO)PHENYLBORANE  
CA 51. 154400000. LIQUID D 0.9500 NO1241.0 04444444 T -0.  
C 12 M 20 B 1 N 1 D 1  
NM 205.12 MI 32.75 MA 0.0914 MD 5.58 EM 17.34 GR 4.84

1-ETHYLENEDIAMINOISOBUTOXYPHENYLBORANE  
CA 51. 154400000. LIQUID D 0.9500 NO1242.0 04444444 T -0.  
C 12 M 20 B 1 N 1 D 1  
NM 205.12 MI 32.75 MA 0.0914 MD 5.58 EM 17.34 GR 4.84

2-AMINOETHYL BUTYLPHENYLBORINATE  
CA 54. 298000000. SOLIDEST D 1.0000 NO1243.0 04444444 T 108.00  
C 12 M 20 B 1 N 1 D 1  
NM 205.12 MI 32.75 MA 0.0962 MD 5.87 EM 17.34 GR 5.09

A 213

12-AMINOETHANOLDIAMINEHYDROCHLORIDE  
CA 40, 2340ORGAN, SOLIDEST D 1.0500 NO1244.0 04444444 T 189.50  
C 12 H 20 N 2 O 3  
MW 205.12 MI 32.75 NA 0.1010 MD 6.17 EM 17.34 GR 5.35

POLYMERIC PHENYLPHOSPHINODIPROPYLBORINE  
CA 54, 1540ORGAN, POLYMERICAL D 0.9610 NO1444.0 04444444 T -0.  
C 12 H 20 B 1 P 1  
MW 206.09 MI 32.02 NA 0.0899 MD 5.62 EM 18.08 GR 5.08

ORIBIS(DIALLYLBORANE)  
CA 47, 1040ORGAN, LIQUIDEST D 0.8000 NO1249.0 04444444 T -0.  
C 12 H 20 B 2 O 1  
MW 201.03 MI 32.65 NA 0.0779 MD 4.77 EM 17.66 GR 4.21

TRIS(2-METHYLBORANOLYL)BORINE  
CA 54, 2170ORGAN, UNKNOWNEST D 0.9000 NO1246.0 04444444 T -0.  
C 12 H 21 B 1  
MW 176.12 MI 31.69 NA 0.0973 MD 6.46 EM 17.00 GR 5.23

PERMYDRO-(98)-BOROPHENYLENE  
CA 54, 1610ORGAN, UNKNOWNEST D 0.9600 NO3436.0 04444444 T -0.  
C 12 H 21 B 1  
MW 176.12 MI 31.69 NA 0.1040 MD 6.89 EM 17.00 GR 5.58

TRIS(3-BUTENYL)BORANE  
CA 50, 1451ORGAN, UNKNOWNEST D 0.9000 NO1247.0 04444444 T -0.  
C 12 H 21 B 1  
MW 176.12 MI 31.69 NA 0.0973 MD 6.46 EM 17.00 GR 5.23

BORON TRICHLORIDE-TRIPARATOLYL PHOSPHATE  
CA 54, 1280ORGAN, SOLIDICAL D 1.2484 NO3437.0 04444444 T 127.50  
C 12 H 21 B 1 Cl 3 O 4 P 1  
MW 377.47 MI 40.58 NA 0.0808 MD 4.18 EM 602.16 GR 119.96

2-BORANYLDIETHYLBORONUM TETRAFLUOROBORATE  
CA 54, 3420ORGAN, UNKNOWNICAL D 1.0091 NO3438.0 04444444 T -0.  
C 12 H 21 B 1 F 4 O 1  
MW 268.12 MI 37.84 NA 0.0858 MD 4.76 EM 17.24 GR 3.92

DIPROPYLPHENYLHYDROAZOBIORINE  
CA 54, 2051ORGAN, LIQUIDKNO D 0.9194 NO3439.0 04444444 T -0.  
C 12 H 21 B 1 N 2  
MW 204.14 MI 33.83 NA 0.0918 MD 5.70 EM 19.15 GR 5.20

DIPROPYLPHENYLHYDROAZOBIORINE  
CA 54, 2051ORGAN, LIQUIDKNO D 0.9181 NO3440.0 04444444 T -0.  
C 12 H 21 B 1 N 2  
MW 204.14 MI 33.83 NA 0.0916 MD 5.69 EM 19.15 GR 5.19

A 215

GLUCOSE-BORON COMPLEX  
CA 53, 2910ORGAN, UNKNOWNICAL D 1.1309 NO3444.0 04444444 T -0.  
C 12 H 21 B 1 O 12  
MW 368.12 MI 63.57 NA 0.0806 MD 3.89 EM 17.01 GR 3.15

MANNOSE BORON COMPLEX  
CA 53, 2910ORGAN, UNKNOWNICAL D 1.1309 NO3445.0 04444444 T -0.  
C 12 H 21 B 1 O 12  
MW 368.12 MI 63.57 NA 0.0806 MD 3.89 EM 17.01 GR 3.15

TRI(1-BUTENYL)BORONKIN  
NACH 49801ORGAN, UNKNOWNEST D 0.9300 NO1250.0 04444444 T -0.  
C 12 H 21 B 3 O 3  
MW 245.78 MI 86.60 NA 0.0834 MD 4.79 EM 19.78 GR 4.51

BUTYRYLBORONIC ANHYDRIDE  
CA 54, 2463ORGAN, SOLIDICAL D 1.0650 NO4400.0 04444444 T 63.00  
C 12 H 21 B 3 O 6  
MW 293.74 MI 59.37 NA 0.0864 MD 4.59 EM 19.79 GR 4.72

CHLORODICYCLHEXYLBORINE  
CA 53, 1768ORGAN, LIQUIDEST D 0.9500 NO1251.0 04444444 T -0.  
C 12 H 22 B 1 Cl 1  
MW 212.88 MI 33.69 NA 0.0912 MD 5.92 EM 212.16 GR 57.11

DICHLORODICYCLHEXYLAMINOBIORINE  
CA 54, 8742ORGAN, LIQUIDEST D 1.1000 NO1252.0 04444444 T -0.  
C 12 H 22 B 1 Cl 2 N 1  
MW 262.05 MI 36.16 NA 0.0914 MD 5.56 EM 407.70 GR 103.08

TRIMETHYLBORANE-(2-TERTBUTYL)PYRIDINE  
CA 51, 2375ORGAN, UNKNOWNEST D 0.9000 NO1253.0 04444444 T -0.  
C 12 H 22 B 1 N 1  
MW 191.14 MI 33.76 NA 0.0958 MD 6.24 EM 18.81 GR 5.33

PHENYLBORINE-TRIMETHYLBORANE  
CA 53, 4270ORGAN, SOLIDEST D 0.9000 NO1254.0 04444444 T 64.50  
C 12 H 22 B 1 N 1  
MW 191.14 MI 33.76 NA 0.0958 MD 6.24 EM 18.81 GR 5.33

CYCLOHEXYLPYRROBATE  
CA 47, 2430ORGAN, SOLIDICAL D 1.0823 NO3446.0 04444444 T -0.  
C 12 H 22 B 4 O 7  
MW 321.59 MI 62.53 NA 0.0962 MD 4.46 EM 21.91 GR 4.44

3-PIPERIDINOMETHYL TRIPTYCH-BOROXAZOLIDINE  
CA 54, 24681ORGAN, SOLIDICAL D 0.9022 NO3447.0 04444444 T 188.50  
C 12 H 23 B 1 N 2 O 3  
MW 254.15 MI 38.80 NA 0.0830 MD 4.92 EM 20.63 GR 4.41

A 214

2-BUTENYL BORATE  
CA 51, 1281ORGAN, LIQUIDKNO D 0.9200 NO 259.0 04444444 T -0.  
C 12 H 21 B 1 O 3  
MW 224.12 MI 34.66 NA 0.0837 MD 5.19 EM 17.00 GR 4.20

3-BUTENYL BORATE  
CA 51, 1281ORGAN, LIQUIDKNO D 0.8929 NO 260.0 04444444 T -0.  
C 12 H 21 B 1 O 3  
MW 224.12 MI 34.66 NA 0.0831 MD 5.04 EM 17.00 GR 4.08

2-METHYLLALLYL BORATE  
CA 51, 2537ORGAN, SOLIDEST D 0.9500 NO1248.0 04444444 T 30.00  
C 12 H 21 B 1 O 3  
MW 224.12 MI 34.66 NA 0.0869 MD 5.36 EM 17.00 GR 4.34

11-METHYL-2-PROPHENYLBORATE  
CA 51, 1281ORGAN, LIQUIDKNO D 0.8718 NO 77.0 04444444 T -0.  
C 12 H 21 B 1 O 3  
MW 224.12 MI 34.66 NA 0.0812 MD 4.92 EM 17.00 GR 3.98

13-METHYL-2-PROPHENYLBORATE  
CA 51, 1281ORGAN, LIQUIDKNO D 0.9200 NO 78.0 04444444 T -0.  
C 12 H 21 B 1 O 3  
MW 224.12 MI 34.66 NA 0.0837 MD 5.19 EM 17.00 GR 4.20

TRI(1-METHYLLALLYL) BORATE  
CA 51, 1281ORGAN, LIQUIDICAL D 0.9304 NO3441.0 04444444 T -0.  
C 12 H 21 B 1 O 3  
MW 224.12 MI 34.66 NA 0.0867 MD 5.25 EM 17.00 GR 4.25

ETHYL GLYCOLATE BORATE  
CA 53, 2780ORGAN, UNKNOWNEST D 1.2000 NO1249.0 04444444 T -0.  
C 12 H 21 B 1 O 9  
MW 380.12 MI 40.60 NA 0.0917 MD 4.74 EM 17.01 GR 3.84

CARBETHOXYMETHYLBORATE  
CA 50, 7070ORGAN, LIQUIDKNO D 1.1600 NO 261.0 04444444 T -0.  
C 12 H 21 B 1 O 9  
MW 320.12 MI 40.60 NA 0.0888 MD 4.58 EM 17.01 GR 3.71

FRUCTOSE BORON COMPLEX  
CA 53, 2910ORGAN, UNKNOWNICAL D 1.1309 NO3442.0 04444444 T -0.  
C 12 H 21 B 1 O 12  
MW 368.12 MI 63.57 NA 0.0806 MD 3.89 EM 17.01 GR 3.15

GALACTOSE BORON COMPLEX  
CA 53, 2910ORGAN, UNKNOWNICAL D 1.1309 NO3443.0 04444444 T -0.  
C 12 H 21 B 1 O 12  
MW 368.12 MI 63.57 NA 0.0806 MD 3.89 EM 17.01 GR 3.15

A 216

DICHLOROMETHYLBORONIC ACID  
CA 53, 1768ORGAN, SOLIDEST D 0.9500 NO1255.0 04444444 T 94.50  
C 12 H 23 B 1 O 1  
MW 194.14 MI 34.66 NA 0.1022 MD 6.78 EM 18.47 GR 5.44

DIPHUOSERONIC ACID  
GR 13, 2300ORGAN, SOLIDICAL D 0.9818 NO4200.0 04444444 T 173.00  
C 12 H 23 B 1 O 7  
MW 290.14 MI 40.62 NA 0.0824 MD 4.09 EM 18.47 GR 3.77

PERMYDRO(98)BOROPHENYLENE  
AD235, 0750ORGAN, LIQUIDKNO D 0.9427 NO4481.0 04444444 T -0.  
C 12 H 24 B 1  
MW 179.14 MI 34.69 NA 0.1100 MD 7.61 EM 19.20 GR 6.08

1,4-BIS(BOROLANYL)BUTANE  
AD235, 0750ORGAN, LIQUIDICAL D 0.7521 NO4415.0 04444444 T -0.  
C 12 H 24 B 1  
MW 179.14 MI 34.69 NA 0.0877 MD 6.07 EM 19.20 GR 4.85

TRIS(2-CHLOROBUTYL)BORINE  
CA 54, 1144BORGAN, UNKNOWNEST D 1.2000 NO1256.0 04444444 T -0.  
C 12 H 24 B 1 Cl 3  
MW 289.81 MI 38.29 NA 0.0969 MD 4.08 EM 602.94 GR 152.94

4-CHLOROBUTYL BORATE  
CA 50, 7720ORGAN, LIQUIDKNO D 1.3700 NO 262.0 04444444 T -0.  
C 12 H 24 B 1 Cl 3  
MW 289.81 MI 41.26 NA 0.1021 MD 5.94 EM 602.94 GR 149.08

BUT-3-EN-1-YL BORATE  
CA 51, 1281ORGAN, UNKNOWNICAL D 0.8527 NO3448.0 04444444 T -0.  
C 12 H 24 B 1 O 3  
MW 227.14 MI 37.68 NA 0.0852 MD 5.63 EM 19.20 GR 4.34

BORON TRIS(PYRROLIDINE)  
CA 53, 3310ORGAN, SOLIDEST D 0.9000 NO1257.0 04444444 T 49.00  
C 12 H 24 B 1 N 3  
MW 221.17 MI 37.40 NA 0.0929 MD 5.88 EM 22.43 GR 5.50

POLYMERIC DIHEXYLPHOSPHINOBORINE  
CA 54, 1540ORGAN, POLYMERICAL D 1.1485 NO4145.0 04444444 T -0.  
C 12 H 24 B 1 P 1  
MW 210.12 MI 34.02 NA 0.1166 MD 7.90 EM 21.02 GR 6.92

1,1-PRIME-TETRAMETHYLENEBISBOROLANE  
CA 54, 6680ORGAN, LIQUIDICAL D 0.7864 NO3449.0 04444444 T -0.  
C 12 H 24 B 2  
MW 189.86 MI 35.66 NA 0.0869 MD 5.98 EM 20.59 GR 5.13

A 217

BISACETOXYBUTYLBORON OXIDE  
CA 54, 1204ORGAN, LIQUIDAL D 0.9355 NO3450.0 04444444 T 43.50  
C 12 H 24 B 2 O 5  
MW 269.96 MI 40.61 MA 0.0848 MD 5.01 EM 20.60 GR 4.30

2-METHYL-2,4-PENTADIOLHYDROGEN BORATE  
CA 53, 148BORGAN, LIQUIDAL D 0.9355 NO3451.0 04444444 T -0.  
C 12 H 24 B 2 O 5  
MW 269.96 MI 40.61 MA 0.0848 MD 5.01 EM 20.60 GR 4.30

BISACETOXYBUTYLBORON OXIDE  
CA 53, 199BORGAN, LIQUIDAL D 0.9355 NO3452.0 04444444 T 56.50  
C 12 H 24 B 2 O 5  
MW 269.96 MI 40.61 MA 0.0848 MD 5.01 EM 20.60 GR 4.30

BIS(PROPIONOXY)PROPYLENE BORON OXIDE  
CA 53, 1203ORGAN, LIQUIDAL D 0.9355 NO3453.0 04444444 T 20.00  
C 12 H 24 B 2 O 5  
MW 269.96 MI 40.61 MA 0.0848 MD 5.01 EM 20.60 GR 4.30

2,2-DI(2-HYDROXY-1,3,5-TRIMETHYL-1,3,5-DIOXABORINANE)  
CA 51, 5847ORGAN, LIQUIDAL D 0.9355 NO3454.0 04044444 T -0.  
C 12 H 24 B 2 O 5  
MW 269.96 MI 40.61 MA 0.0848 MD 5.01 EM 20.60 GR 4.30

2,2-PHENYL-1,1-DIMETHYLENE-DIOXABORINANE  
CA 46, 4581ORGAN, UNKNOWEST D 0.9200 NO1258.0 04444444 T -0.  
C 12 H 24 B 2 O 6  
MW 269.96 MI 41.60 MA 0.0894 MD 5.16 EM 20.60 GR 4.43

2,4,6-TRIALKYL-1,3,5-TRIMETHYLBORAZINE  
CA 53, 3240ORGAN, LIQUIDEST D 0.9000 NO1259.0 04444444 T -38.00  
C 12 H 24 B 3 N 3  
MW 242.81 MI 39.84 MA 0.0889 MD 5.36 EM 25.22 GR 5.63

TRI-N-METHYLBORAZOLE  
CA 54, 4429ORGAN, UNKNOWEST D 0.8651 NO3459.0 04444444 T -0.  
C 12 H 24 B 3 N 3  
MW 242.81 MI 39.84 MA 0.0855 MD 5.15 EM 25.22 GR 5.41

TRI-N-VINYLBORAZOLE  
CA 53, 4429ORGAN, UNKNOWEST D 0.8651 NO3459.0 04444444 T -0.  
C 12 H 24 B 3 N 3  
MW 242.81 MI 39.84 MA 0.0855 MD 5.15 EM 25.22 GR 5.41

BIS(PROPYLENEGLYCOL)DIBORATE DIMER  
CA 50, 10445ORGAN, LIQUIDAL D 1.1999 NO4310.0 04444444 T -0.  
C 10 H 24 B 4 O 10  
MW 347.58 MI 45.88 MA 0.1113 MD 5.82 EM 23.35 GR 5.67

A 219

TRI-N-BUTYLBORANE  
CA 131, 2190ORGAN, LIQUIDEST D 0.7500 NO1263.0 04444444 T -0.  
C 12 H 27 B 3  
MW 182.17 MI 37.69 MA 0.0935 MD 6.70 EM 21.40 GR 5.31

TRISOBUTYLBORINE  
CA 54, 5848ORGAN, LIQUIDEST D 0.7553 NO 96.0 04440440 T -0.  
C 12 H 27 B 3  
MW 182.17 MI 37.69 MA 0.0916 MD 6.56 EM 21.40 GR 5.20

TRISITERT-BUTYLBORINE  
CA 53, 20041ORGAN, LIQUIDEST D 0.7658 NO 95.0 04440444 T -0.  
C 12 H 27 B 3  
MW 182.17 MI 37.69 MA 0.0936 MD 6.84 EM 21.40 GR 5.42

BUTYL-DI-TERT-BUTYLBORINE  
CA 13, 2190ORGAN, LIQUIDEST D 0.7500 NO1259.0 04444444 T -0.  
C 12 H 27 B 3  
MW 182.17 MI 37.69 MA 0.0935 MD 6.70 EM 21.40 GR 5.31

DIBISOBUTYL-T-BUTYLBORANE  
CA 54, 6276ORGAN, LIQUIDEST D 0.7500 NO1769.0 04444444 T -0.  
C 12 H 27 B 3  
MW 182.17 MI 37.69 MA 0.0935 MD 6.70 EM 21.40 GR 5.31

TRISOBUTYLBORINE  
CA 53, 20041ORGAN, LIQUIDEST D 0.7553 NO3463.0 04444444 T -0.  
C 12 H 27 B 3  
MW 182.17 MI 37.69 MA 0.0916 MD 6.56 EM 21.40 GR 5.20

BORON TRICHLORIDE-DODECYLAMINE  
CA 46, 13710ORGAN, LIQUIDAL D 1.0101 NO3464.0 04444444 T 170.50  
C 12 H 27 B 3  
MW 302.55 MI 42.36 MA 0.0892 MD 5.43 EM 605.82 GR 121.84

BORON TRICHLORIDE-TRISBUTYLTHIOCHLORIDE  
CA 49, 1540ORGAN, LIQUIDAL D 1.0749 NO3465.0 04444444 T -0.  
C 12 H 27 B 3  
MW 324.00 MI 42.49 MA 0.0849 MD 5.40 EM 799.18 GR 159.71

BORON TRIFLUORIDE-DODECYLAMINE  
CA 46, 13710ORGAN, LIQUIDEST D 1.3000 NO1266.0 04000444 T 87.00  
C 12 H 27 B 3  
MW 253.18 MI 42.03 MA 0.1318 MD 8.35 EM 22.70 GR 7.02

BORON TRIFLUORIDE-TRISBUTYLAMINE  
CA 51, 35108ORGAN, LIQUIDEST D 1.3000 NO1267.0 04444444 T 95.00  
C 12 H 27 B 3  
MW 253.18 MI 42.03 MA 0.1318 MD 8.35 EM 22.70 GR 7.02

A 218

TETRAALKYLBORON OXIDE  
CA 54, 20570ORGAN, UNKNOWEST D 1.1085 NO3457.0 04444444 T -0.  
C 12 H 24 B 4 O 10  
MW 396.143 MI 49.54 MA 0.0834 MD 4.04 EM 25.88 GR 9.35

HEXYL DI-SEC-PROPYLBORONATE  
CA 54, 24347ORGAN, LIQUIDEST D 0.8314 NO3458.0 04444444 T -0.  
C 12 H 28 B 2 O 2  
MW 194.15 MI 36.68 MA 0.0936 MD 6.28 EM 19.93 GR 5.09

CYCLO OXIDE OF HEXYLBORONIC ACID WITH PINACOL  
CA 52, 10563ORGAN, UNKNOWEST D 0.9300 NO1260.0 04444444 T -0.  
C 12 H 28 B 2 O 2  
MW 212.15 MI 37.67 MA 0.0995 MD 6.60 EM 19.93 GR 5.26

BENZYL-DIMETHYLBORONATE  
CA 54, 20690ORGAN, UNKNOWEST D 1.2156 NO3459.0 04444444 T -0.  
C 12 H 28 B 2 O 2  
MW 456.26 MI 54.48 MA 0.0874 MD 4.01 EM 27.99 GR 4.49

CHLOROBIS(1,1,2,3-TRIMETHYLPROPOXY)BORANE  
CA 50, 12718ORGAN, UNKNOWEST D 0.9010 NO 263.0 04444444 T -0.  
C 12 H 26 B 2 O 2  
MW 248.62 MI 39.87 MA 0.0870 MD 5.68 EM 215.11 GR 46.96

1,2-ETHOXY TETRAPHENYL-2-PURYL-3-TRIMETHYLPHOSPHONIUM FLUOROBORATE  
CA 52, 18224ORGAN, LIQUIDAL D 1.0343 NO3460.0 04444444 T 60.00  
C 12 H 26 B 1 F 4 O 2 P 1  
MW 320.13 MI 45.14 MA 0.0879 MD 5.06 EM 22.79 GR 4.44

DICYCLOHEXYLPHOSPHINE-BORANE  
CA 54, 7156ORGAN, UNKNOWEST D 0.8667 NO3461.0 04444444 T -0.  
C 12 H 26 B 2 P 1  
MW 212.13 MI 36.02 MA 0.0914 MD 6.25 EM 22.49 GR 5.41

DICYCLOHEXANONE-DIBORANE COMPLEX  
CA 50, 7156ORGAN, UNKNOWEST D 0.9000 NO1261.0 04444444 T -0.  
C 12 H 26 B 2 O 2  
MW 223.98 MI 39.64 MA 0.0939 MD 6.29 EM 27.06 GR 5.34

TRIALKYLPROPYLENEBORONATE  
CA 54, 20690ORGAN, UNKNOWEST D 1.1270 NO3462.0 04444444 T -0.  
C 12 H 26 B 3 N 1 O 10  
MW 398.63 MI 51.56 MA 0.0878 MD 4.43 EM 27.33 GR 4.66

TRISBUTYLBORANE  
CA 13, 2190ORGAN, LIQUIDEST D 0.7500 NO1262.0 04444444 T -34.20  
C 12 H 27 B 3  
MW 182.17 MI 37.69 MA 0.0935 MD 6.70 EM 21.40 GR 5.31

A 220

AMMONIA-PERHYDRO-1,3,5-BORAPHENYLENE ADDUCT  
AD2351, 0750ORGAN, UNKNOWEST D 0.7543 NO4482.0 04444444 T -0.  
C 12 H 27 B 3 N 1  
MW 194.18 MI 38.76 MA 0.0878 MD 6.25 EM 22.48 GR 5.21

BORANE-TRISBUTYLAMINE  
CA 54, 15228ORGAN, LIQUIDEST D 0.7800 NO1846.0 04444444 T -28.00  
C 12 H 27 B 3 N 1  
MW 194.18 MI 38.76 MA 0.0928 MD 6.67 EM 22.48 GR 5.39

SEC-BUTYL BORINATE  
CA 53, 9149ORGAN, UNKNOWEST D 0.8100 NO1268.0 04444444 T -0.  
C 12 H 27 B 1 O 1  
MW 194.17 MI 38.68 MA 0.0982 MD 6.65 EM 21.40 GR 5.27

ISOBUTYL BORINATE  
CA 53, 19990ORGAN, UNKNOWEST D 0.8100 NO1269.0 04444444 T -0.  
C 12 H 27 B 1 O 1  
MW 194.17 MI 38.68 MA 0.0982 MD 6.65 EM 21.40 GR 5.27

ISOBUTYL DIISOBUTYLBORINATE  
CA 52, 19990ORGAN, UNKNOWEST D 0.8100 NO1270.0 04444444 T -0.  
C 12 H 27 B 2 O 2  
MW 194.17 MI 38.68 MA 0.0957 MD 6.65 EM 21.40 GR 5.27

DIMETHYLBORONIC ACID  
CA 54, 2080ORGAN, UNKNOWEST D 0.8500 NO1271.0 04444444 T -0.  
C 12 H 27 B 2 O 2  
MW 194.17 MI 38.68 MA 0.0999 MD 6.98 EM 21.40 GR 5.53

BUTYL DIBUTYLBORINATE  
CA 54, 2610ORGAN, LIQUIDEST D 0.8077 NO 264.0 04444444 T -0.  
C 12 H 27 B 2 O 2  
MW 194.17 MI 38.68 MA 0.0950 MD 6.63 EM 21.40 GR 5.25

BUTYL-1-BUTANEBORONATE  
CA 53, 35321ORGAN, LIQUIDEST D 0.8264 NO 265.0 04444444 T -0.  
C 12 H 27 B 2 O 2  
MW 214.17 MI 39.67 MA 0.0922 MD 6.28 EM 21.40 GR 4.77

DODECYLBORONIC ACID  
CA 53, 9149ORGAN, UNKNOWEST D 0.7000 NO1272.0 04444444 T -0.  
C 12 H 27 B 2 O 2  
MW 214.17 MI 39.67 MA 0.1004 MD 6.83 EM 21.40 GR 5.42

BUTYL DIBUTYLPHOSPHONIUM BORINATE  
CA 51, 9149ORGAN, UNKNOWEST D 0.8800 NO1273.0 04444444 T -0.  
C 12 H 27 B 2 O 2  
MW 214.17 MI 39.67 MA 0.0982 MD 6.68 EM 21.40 GR 5.30

A 221

BUTYL DIISOBUTYLPEROXYBORATE  
CA 30. 3740ORGAN. UNKNOWEST D 0.8300 NO1274.0 04444444 T -0.  
C 12 H 27 B 1 O 3  
MW 214.17 MI 49.67 NA 0.0826 MD 6.30 EM 21.40 GR 5.00

TRIT-BUTYL DIISOBUTYLPEROXYBORINATE  
CA 34.243490ORGAN. UNKNOWCAL D 0.8033 NO3446.0 04444444 T -0.  
C 12 H 27 B 1 O 3  
MW 214.17 MI 59.67 NA 0.0898 MD 6.10 EM 21.40 GR 4.84

ISO-BUTYL DIISOBUTYLPEROXYBORINATE  
CA 34.243490ORGAN. UNKNOWCAL D 0.7561 NO3467.0 04444444 T -0.  
C 12 H 27 B 1 O 3  
MW 214.17 MI 39.67 NA 0.0846 MD 5.76 EM 21.40 GR 4.56

TRIMETHYLLALLYL BORATE  
CA 34.10910ORGAN. SOLIDEST D 0.9000 NO1275.0 04444444 T 30.00  
C 12 H 27 B 1 O 3  
MW 230.17 MI 40.66 NA 0.0958 MD 6.36 EM 21.40 GR 5.04

BUTYL BORATE  
CA 33.216220ORGAN. LIQUIDKND D 0.8527 NO 81.0 04440440 T -0.  
C 12 H 27 B 1 O 3  
MW 230.17 MI 40.66 NA 0.0907 MD 6.02 EM 21.40 GR 4.78

ISOBUTYL BORATE  
CA 34.10910ORGAN. UNKNOWEST D 0.8500 NO1276.0 04444444 T -0.  
C 12 H 27 B 1 O 3  
MW 230.17 MI 40.66 NA 0.0904 MD 6.01 EM 21.40 GR 4.76

TRI(1-METHOXY)PROPYLBORANE  
CA 30.14510ORGAN. LIQUIDEST D 0.8500 NO1277.0 04444444 T -0.  
C 12 H 27 B 1 O 3  
MW 230.17 MI 40.66 NA 0.0904 MD 6.01 EM 21.40 GR 4.76

DIBUTOXY(1-METHOXY)PROPYLBORANE  
CA 37.10400ORGAN. LIQUIDEST D 0.8500 NO1278.0 04444444 T -0.  
C 12 H 27 B 1 O 3  
MW 230.17 MI 40.66 NA 0.0904 MD 6.01 EM 21.40 GR 4.76

SEC-BUTYL BORATE  
CA 34.138860ORGAN. LIQUIDKND D 0.8270 NO 266.0 04444444 T -0.  
C 12 H 27 B 1 O 3  
MW 230.17 MI 40.66 NA 0.0880 MD 5.84 EM 21.40 GR 4.63

TERT-BUTYL BORATE  
CA 34.138860ORGAN. LIQUIDKND D 0.8140 NO 267.0 04444444 T 18.50  
C 12 H 27 B 1 O 3  
MW 230.17 MI 40.66 NA 0.0886 MD 5.75 EM 21.40 GR 4.56

A 223

BUTYL DEBUTYLTHIOBORINATE  
CA 34. 2610ORGAN. LIQUIDKND D 0.8367 NO 266.0 04444444 T -0.  
C 12 H 27 B 1 S 1  
MW 214.23 MI 38.99 NA 0.0917 MD 6.35 EM 22.16 GR 5.21

BUTYL DIISOBUTYLTHIOBORINATE  
CA 34. 2610ORGAN. LIQUIDKND D 0.8213 NO 269.0 04444444 T -0.  
C 12 H 27 B 1 S 1  
MW 214.23 MI 38.99 NA 0.0900 MD 6.23 EM 22.16 GR 5.12

DIBUTYL BUTYLDITHIOBORINATE  
CA 34. 3201ORGAN. LIQUIDKND D 0.9045 NO 270.0 04444444 T -0.  
C 12 H 27 B 1 S 2  
MW 246.29 MI 40.29 NA 0.0891 MD 5.97 EM 22.92 GR 5.07

UBUTYLSEC-BUTYLDITHIOBORINATE  
CA 34.14100ORGAN. LIQUIDEST D 0.9000 NO1461.0 04444444 T -0.  
C 12 H 27 B 1 S 2  
MW 246.29 MI 40.29 NA 0.0891 MD 5.94 EM 22.92 GR 5.04

DIBUTYL ISOBUTYLDITHIOBORINATE  
CA 34. 3600ORGAN. UNKNOWCAL D 0.9077 NO3475.0 04444444 T -0.  
C 12 H 27 B 1 S 2  
MW 246.29 MI 40.29 NA 0.0894 MD 5.99 EM 22.92 GR 5.09

ISOBUTYL THIOBORATE  
CA 34. 3600ORGAN. UNKNOWCAL D 0.9851 NO3476.0 04444444 T -0.  
C 12 H 27 B 1 S 2  
MW 278.35 MI 41.59 NA 0.0887 MD 5.76 EM 23.67 GR 5.05

BUTYL THIOBORATE  
CA 34. 3600ORGAN. LIQUIDKND D 0.9082 NO 271.0 04444444 T -0.  
C 12 H 27 B 1 S 2  
MW 278.35 MI 41.59 NA 0.0817 MD 5.31 EM 23.67 GR 4.85

1,3,5-TRIBUTYL-2,4,6-TRICHLOROBORAZINE  
CA 33. 3201ORGAN. SOLIDCAL D 1.0726 NO3477.0 04444444 T 30.00  
C 12 H 27 B 3 Cl 3 N 3  
MW 352.20 MI 46.44 NA 0.0852 MD 4.95 EM 21.76 GR 112.04

TRIBUTYLBOROXIN  
JACS 79. 5170ORGAN. LIQUIDKND D 0.8718 NO 272.0 04444444 T -30.00  
C 12 H 27 B 3 O 3  
MW 251.81 MI 42.60 NA 0.0888 MD 5.63 EM 24.19 GR 5.04

TRISOBUTYLBOROXIN  
JACS 79. 5170ORGAN. LIQUIDKND D 0.8550 NO 273.0 04444444 T -0.  
C 12 H 27 B 3 O 3  
MW 251.81 MI 42.60 NA 0.0871 MD 5.32 EM 24.19 GR 4.95

A 222

DIBUTYL MONOPEROXYBUTYLBORONATE  
CA 33. 2930ORGAN. UNKNOWCAL D 0.8385 NO4346.0 04444444 T -0.  
C 12 H 27 B 1 O 3  
MW 230.17 MI 40.66 NA 0.0889 MD 5.90 EM 21.40 GR 4.68

TRIS(2-ETHOXY)ETHYLBORINE  
CA 33.216230ORGAN. UNKNOWCAL D 0.8355 NO4347.0 04444444 T -0.  
C 12 H 27 B 1 O 3  
MW 230.17 MI 40.66 NA 0.0889 MD 5.90 EM 21.40 GR 4.68

DIISOBUTYL TRITERTBUTYL ISOBUTYLOPEROXYBORONATE  
CA 34.243490ORGAN. UNKNOWCAL D 0.8170 NO3468.0 04444444 T -0.  
C 12 H 27 B 1 O 4  
MW 246.17 MI 41.65 NA 0.0833 MD 5.40 EM 21.40 GR 4.28

DIISO-BUTYL-2-METHYL PEROXY-1-PROPANE BORONATE  
CA 32. 6150ORGAN. UNKNOWCAL D 0.8657 NO3469.0 04444444 T -0.  
C 12 H 27 B 1 O 4  
MW 246.17 MI 41.65 NA 0.0882 MD 5.72 EM 21.40 GR 4.53

SEC-BUTYL TRIS(SEC-BUTYLPEROXY)BORON  
CA 33.149220ORGAN. LIQUIDCAL D 0.8170 NO3470.0 04444444 T -0.  
C 12 H 27 B 1 O 4  
MW 246.17 MI 41.65 NA 0.0833 MD 5.40 EM 21.40 GR 4.28

DITERTBUTYL 2-METHYLPEROXYPROPANEBORONATE  
CA 32. 6150ORGAN. UNKNOWCAL D 0.8657 NO3471.0 04444444 T -0.  
C 12 H 27 B 1 O 4  
MW 246.17 MI 41.65 NA 0.0882 MD 5.72 EM 21.40 GR 4.53

ISOBUTYL PEROXYBORATE  
CA 34. 6180ORGAN. UNKNOWCAL D 0.8657 NO3472.0 04444444 T -0.  
C 12 H 27 B 1 O 4  
MW 246.17 MI 41.65 NA 0.0882 MD 5.72 EM 21.40 GR 4.53

BUTYL PEROXYBORATE  
CA 32. 6150ORGAN. LIQUIDCAL D 0.9208 NO3473.0 04444444 T -0.  
C 12 H 27 B 1 O 4  
MW 278.17 MI 43.63 NA 0.0870 MD 5.38 EM 21.41 GR 4.27

TERT-BUTYL PEROXYBORATE  
CA 32. 6150ORGAN. LIQUIDCAL D 0.8689 NO3474.0 04444444 T 18.00  
C 12 H 27 B 1 O 4  
MW 278.17 MI 43.63 NA 0.0831 MD 5.08 EM 21.41 GR 4.03

DIAMMANTOBORIC ACID  
GM 13. 2300ORGAN. SOLIDCAL D 1.0713 NO4291.0 04444444 T 148.00  
C 12 H 27 B 1 O 13  
MW 390.17 MI 30.56 NA 0.0836 MD 4.47 EM 21.42 GR 3.54

A 224

TRI-SEC-BUTYLBOROXIN  
JACS 79. 5170ORGAN. UNKNOWEST D 0.8600 NO1279.0 04444444 T -0.  
C 12 H 27 B 3 O 3  
MW 251.81 MI 42.60 NA 0.0876 MD 5.55 EM 24.19 GR 4.98

TRI-TERT-BUTYLBOROXIN  
JACS 79. 5170ORGAN. SOLIDEST D 0.8600 NO1280.0 04444444 T 30.50  
C 12 H 27 B 3 O 3  
MW 251.81 MI 42.60 NA 0.0876 MD 5.55 EM 24.19 GR 4.98

TRI-SEC-BUTOXYBOROXIN  
CA 34. 3201ORGAN. LIQUIDKND D 0.9850 NO 274.0 04444444 T -0.  
C 12 H 27 B 3 O 3  
MW 299.81 MI 45.57 NA 0.0902 MD 5.34 EM 24.19 GR 4.79

TRIBUTYLBOROXIN  
CA 34. 3201ORGAN. LIQUIDKND D 1.0100 NO 276.0 04444444 T -75.00  
C 12 H 27 B 3 O 3  
MW 247.81 MI 45.57 NA 0.0925 MD 5.48 EM 24.19 GR 4.91

TRISOBUTOXYBOROXIN  
CA 34. 3201ORGAN. LIQUIDKND D 0.9770 NO 275.0 04444444 T -0.  
C 12 H 27 B 3 O 3  
MW 299.81 MI 45.57 NA 0.0894 MD 5.30 EM 24.19 GR 4.75

TRIBUTYLBORTHIIN  
CA 40.15590ORGAN. LIQUIDCAL D 0.9797 NO3478.0 04444444 T -0.  
C 12 H 27 B 3 S 1  
MW 299.99 MI 43.53 NA 0.0856 MD 5.31 EM 26.46 GR 5.20

TRISOBUTYLLBORTHIIN  
CA 40.15590ORGAN. LIQUIDCAL D 1.0382 NO3479.0 04444444 T -0.  
C 12 H 27 B 3 S 1  
MW 299.99 MI 43.53 NA 0.0907 MD 5.63 EM 26.46 GR 5.52

BORIC ACID-BENZYLO(1-METHYL)PROPYLAMMONIUM BORATE  
CA 34. 2080ORGAN. UNKNOWCAL D 1.1709 NO3480.0 04444444 T -0.  
C 12 H 27 B 3 N 1 O 13  
MW 458.28 MI 56.46 NA 0.0869 MD 4.16 EM 29.45 GR 4.53

TETRAPROPYLAAMMONIUM TETRAFLUOROBORATE  
CA 30. 2340ORGAN. SOLIDCAL D 0.8832 NO3481.0 04444444 T 249.50  
C 12 H 28 B 1 F 4 N 1  
MW 273.18 MI 44.92 NA 0.0875 MD 5.45 EM 23.51 GR 4.58

POTASSIUM TETRAPROPYLBORATE  
CA 33. 7014ORGAN. UNKNOWEST D 0.8000 NO1328.0 04444444 T -0.  
C 12 H 28 B 1 K 1  
MW 222.28 MI 40.23 NA 0.0872 MD 6.07 EM 44.39 GR 9.62



A 225

LITHIUM TRIBUTYLPHOSPHATE  
CA 47. 3270ORGAN.UNKNOWCAL D 0.8595 NO3482.0 04444444 T -0.  
C 12 H 28 B 1 N 1 D 3  
MW 238.12 MI 42.67 MA 0.0928 MD 6.09 EM 22.21 GR 4.83

DI-SEC-BUTYLAMINO DIETHYLBORINE  
CA 54. 8748ORGAN.LIQUIDEST D 0.7800 NO1281.0 04444444 T -0.  
C 12 H 28 B 1 N 1  
MW 197.16 MI 39.76 MA 0.0947 MD 6.67 EM 23.21 GR 5.53

DIBUTYL (BUTYLAMINO) BORINE  
CA 54. 2810ORGAN.LIQUIDAND D 0.7758 NO 277.0 04444444 T -0.  
C 12 H 28 B 1 N 1  
MW 197.16 MI 39.76 MA 0.0942 MD 6.64 EM 23.21 GR 5.50

SODIUM DIBUTYL (BUTYLAMINO) BOROXYBORATE  
CA 54. 13030ORGAN.UNKNOWCAL D 0.8637 NO3483.0 04444444 T -0.  
C 12 H 28 B 1 N 1 D 2  
MW 238.17 MI 41.88 MA 0.0915 MD 6.12 EM 20.03 GR 5.69

SODIUM TRI-tert-BUTOXYBOROXYBORATE  
CA 51. 34330ORGAN.UNKNOWCAL D 0.8946 NO3486.0 04444444 T -0.  
C 12 H 28 B 1 N 1 D 3  
MW 238.17 MI 42.87 MA 0.0909 MD 5.94 EM 20.03 GR 5.92

SODIUM TRIBUTYLPHOSPHATE  
CA 47. 3741ORGAN. SOLIDICAL D 0.8946 NO3485.0 04444444 T -0.  
C 12 H 28 B 1 N 1 D 3  
MW 238.17 MI 42.87 MA 0.0909 MD 5.94 EM 20.03 GR 5.92

SODIUM TETRAISOPROPYLBOROXYBORATE  
CA 50. 10509ORGAN.UNKNOWCAL D 0.9234 NO3486.0 04444444 T -0.  
C 12 H 28 B 1 N 1 D 4  
MW 270.17 MI 43.86 MA 0.0903 MD 5.76 EM 21.03 GR 5.36

DIBUTYL (DIETHYLAMINO) BORINE  
CA 52. 16187ORGAN.LIQUIDAND D 0.8560 NO 467.0 04444444 T -0.  
C 12 H 28 B 1 N 1 D 2  
MW 229.18 MI 41.74 MA 0.0939 MD 6.30 EM 23.21 GR 5.22

BIS(DIPROPYL)BORON DIOXIDE  
CA 54. 13030ORGAN.LIQUIDAND D 0.7743 NO1745.0 04444444 T -0.  
C 12 H 28 B 2 O 1  
MW 210.00 MI 40.65 MA 0.0903 MD 6.22 EM 23.53 GR 5.22

NIS(DIPROPYL)BORON DIOXIDE  
CA 54. 2810ORGAN.UNKNOWCAL D 0.8100 NO1282.0 04444444 T -0.  
C 12 H 28 B 2 O 1  
MW 210.00 MI 40.65 MA 0.0933 MD 6.43 EM 23.53 GR 5.40

A 227

TRIS(1-BUTYLAMINO) BORINE  
CA 54. 6378ORGAN.UNKNOWCAL D 0.8400 NO1289.0 04444444 T -0.  
C 12 H 30 B 1 N 3  
MW 227.22 MI 43.90 MA 0.0978 MD 6.68 EM 26.84 GR 5.98

TRIS(DIETHYLAMINO) BORINE  
CA 53. 3300ORGAN.LIQUIDEST D 0.8400 NO1285.0 04444444 T -0.  
C 12 H 30 B 1 N 3  
MW 227.22 MI 43.90 MA 0.0978 MD 6.68 EM 26.84 GR 5.98

DIETHYLAMINO BORATE  
CA 54. 12825ORGAN.UNKNOWCAL D 0.8258 NO3489.0 04444444 T -0.  
C 12 H 30 B 1 N 3 D 3  
MW 279.22 MI 46.87 MA 0.0847 MD 5.42 EM 26.84 GR 4.85

TRIBUTYL PHOSPHITE BORINE  
CA 55. 3418ORGAN.LIQUIDICAL D 0.8542 NO3490.0 04444444 T -0.  
C 12 H 30 B 1 O 3 P 1  
MW 264.17 MI 44.44 MA 0.0876 MD 5.84 EM 25.43 GR 4.95

BORANE-DIMETHYLPHOSPHINE  
CA 54. 3468ORGAN.UNKNOWCAL D 0.7668 NO3491.0 04444444 T -0.  
C 12 H 30 B 1 P 1  
MW 216.17 MI 42.02 MA 0.0895 MD 6.39 EM 25.42 GR 5.42

TETRAPROPYLBORANE  
CA 53. 21621ORGAN.UNKNOWCAL D 0.7924 NO3494.0 04444444 T -0.  
C 12 H 30 B 4  
MW 196.00 MI 41.66 MA 0.1015 MD 7.31 EM 23.60 GR 5.75

BIS(DIPROPYL)IMINOBORANE  
CA 54. 20931ORGAN.LIQUIDAND D 0.7986 NO3492.0 04444444 T -0.  
C 12 H 30 B 2 N 2  
MW 224.03 MI 43.80 MA 0.0938 MD 6.43 EM 27.15 GR 5.81

BIS(DIPROPYL)IMINOBORANE  
CA 54. 20931ORGAN.LIQUIDAND D 0.7991 NO3493.0 04444444 T -0.  
C 12 H 30 B 2 N 2  
MW 224.03 MI 43.80 MA 0.0936 MD 6.41 EM 27.15 GR 5.80

BIS(DIPROPYL)IMINOBORANE  
CA 54. 16174ORGAN.LIQUIDAND D 0.9809 NO1847.0 04444444 T -0.  
C 12 H 30 B 1 N 3  
MW 224.25 MI 40.86 MA 0.0854 MD 5.47 EM 28.03 GR 5.11

N-Tri-sec-butylphosphazene  
CA 54. 15224ORGAN.UNKNOWCAL D 0.8700 NO1847.0 04444444 T -0.  
C 12 H 30 B 3 N 3  
MW 248.86 MI 45.84 MA 0.0965 MD 6.32 EM 29.62 GR 6.24

A 224

TRIBUTYLBORANE-POTASSIUMAMIDE  
CA 45. 7458ORGAN.LIQUIDICAL D 0.8136 NO3487.0 04444444 T -0.  
C 12 H 29 B 1 K 1 N 1  
MW 237.29 MI 42.30 MA 0.0874 MD 5.99 EM 46.21 GR 4.54

BUTOXYBIS(DIETHYLAMINO)BORANE  
CA 51. 9476ORGAN.LIQUIDAND D 0.8419 NO 278.0 04444444 T -0.  
C 12 H 30 B 1 N 2 O 1  
MW 228.20 MI 42.82 MA 0.0952 MD 6.44 EM 25.03 GR 5.56

DIBUTYL (TRIMETHYLSILYL)-METHYLBORINE  
CA 52. 14653ORGAN.UNKNOWCAL D 0.7765 NO3488.0 04444444 T -0.  
C 12 H 29 B 1 Si 1  
MW 212.27 MI 40.95 MA 0.0902 MD 6.39 EM 23.65 GR 5.21

TRIS(CYCLODIETHYLSILYL)BORATE  
CA 52. 11734ORGAN.LIQUIDAND D 1.0865 NO 466.0 04444444 T -0.  
C 12 H 30 B 3 Si 3  
MW 423.83 MI 51.04 MA 0.0774 MD 4.55 EM 609.29 GR 92.35

TRIS(DIETHYLPYLDIOPROXY)BORATE  
CA 54. 79330ORGAN.UNKNOWCAL D 1.0619 NO 279.0 04444444 T -0.  
C 12 H 30 B 1 F 3 Si 3  
MW 326.46 MI 48.34 MA 0.0929 MD 5.77 EM 26.17 GR 5.03

BORANE-TRIBUTYLAMINE  
CA 54. 9061ORGAN.LIQUIDEST D 0.7800 NO1283.0 04444444 T -12.00  
C 12 H 30 B 1 N 3  
MW 199.20 MI 41.76 MA 0.0985 MD 7.08 EM 24.68 GR 5.82

TRIS(tert-BUTYL)BORANE-AMMONIA  
CA 53. 2380ORGAN.LIQUIDEST D 0.7800 NO1284.0 04444444 T -0.  
C 12 H 30 B 1 N 3  
MW 199.20 MI 41.76 MA 0.0985 MD 7.08 EM 24.68 GR 5.82

TRIS(DIPROPYL)BORANE-TRIMETHYLAMINE  
CA 53. 2380ORGAN.UNKNOWCAL D 0.8400 NO1286.0 04444444 T -0.  
C 12 H 30 B 1 N 3  
MW 199.20 MI 41.76 MA 0.1081 MD 7.62 EM 24.68 GR 6.27

1,1-BIS(BUTYLAMINO) BORINE  
CA 54. 6378ORGAN.UNKNOWCAL D 0.8400 NO1287.0 04444444 T -0.  
C 12 H 30 B 1 N 3  
MW 227.22 MI 43.90 MA 0.0978 MD 6.68 EM 26.84 GR 5.98

TRIS(SEC-BUTYLAMINO)BORINE  
CA 54. 6378ORGAN.UNKNOWCAL D 0.8400 NO1288.0 04444444 T -0.  
C 12 H 30 B 1 N 3  
MW 227.22 MI 43.90 MA 0.0978 MD 6.68 EM 26.84 GR 5.98

A 224

N-Tri-n-butylphosphazene  
CA 54. 16374ORGAN.UNKNOWCAL D 0.8426 NO1848.0 04444444 T -0.  
C 12 H 30 B 3 N 3  
MW 248.86 MI 45.84 MA 0.0933 MD 6.12 EM 29.62 GR 6.04

HEXALPHOSPHAZENE  
CA 54. 16980ORGAN.UNKNOWCAL D 0.8730 NO1849.0 04444444 T -0.  
C 12 H 30 B 6 N 6  
MW 240.86 MI 45.84 MA 0.0989 MD 6.34 EM 29.62 GR 6.10

1,3,5-TRISOPROPYL-2,4,6-TRIMETHYLBORAZINE  
CA 52. 4982ORGAN. SOLIDEST D 0.8400 NO1290.0 04444444 T -0.  
C 12 H 30 B 3 N 3  
MW 248.86 MI 45.84 MA 0.0932 MD 6.10 EM 29.62 GR 6.02

1,3,5-TRIMETHYL-2,4,6-TRIPROPYLBORAZINE  
CA 54. 16980ORGAN.LIQUIDEST D 0.8400 NO1291.0 04444444 T -0.  
C 12 H 30 B 3 N 3  
MW 248.86 MI 45.84 MA 0.0932 MD 6.10 EM 29.62 GR 6.02

1,3,5-TRIMETHYL-2,4,6-TRIPROPYLBORAZINE  
CA 54. 2630ORGAN.LIQUIDEST D 0.9500 NO1293.0 04444444 T -0.  
C 12 H 30 B 3 N 3  
MW 296.86 MI 48.81 MA 0.0941 MD 5.78 EM 29.63 GR 5.71

2,4,6-TRISOPROPYL-1,3,5-TRIMETHYLBORAZINE  
CA 54. 2630ORGAN.LIQUIDEST D 0.9500 NO1293.0 04444444 T -0.  
C 12 H 30 B 3 N 3  
MW 296.86 MI 48.81 MA 0.0941 MD 5.78 EM 29.63 GR 5.71

N-TRIS-(TRIMETHYLSILOXY)-N-TRIMETHYLBORAZINE  
AD230. 7040ORGAN.LIQUIDICAL D 1.0440 NO4220.0 04444444 T 27.50  
C 12 H 30 B 3 N 3 Si 3  
MW 381.13 MI 52.59 MA 0.0868 MD 4.95 EM 31.97 GR 5.27

TRIS(DIPHOSPHORANYL)BORINE  
CA 54. 1540LORGAN. SOLIDICAL D 0.9717 NO3495.0 04444444 T 164.00  
C 12 H 30 B 3 P 3  
MW 299.70 MI 40.62 MA 0.0910 MD 5.66 EM 31.05 GR 6.22

1,3,5-TRIS(CYCLOTRIMETHYLENE)-BORPHOSPHANE  
AF31616. 2743ORGAN.UNKNOWCAL D 0.9717 NO3496.0 04444444 T -0.  
C 12 H 30 B 3 P 3  
MW 299.70 MI 40.62 MA 0.0910 MD 5.66 EM 31.05 GR 6.22

5-THIOXY-2,2,6,6-TETRAMETHYL-2,8-DISILA-5-BORANONE  
CA 53. 19892ORGAN.LIQUIDICAL D 0.8896 NO3497.0 04444444 T -0.  
C 12 H 31 B 1 O 1 Si 2  
MW 238.38 MI 45.20 MA 0.0937 MD 6.43 EM 25.90 GR 5.37

A 229

BORIC ACID-NANNITOL  
CA 52.3480ORGAN,UNKNOWNEST D 1.2500 NO1294.0 04444444 T -0.  
C 12 H 31 N 1 O 15  
Mn 426.20 MI 56.54 MA 0.0999 HD 5.48 EM 24.36 GR 4.30

HEXATHYL PHOSPHORUS TRIANIDE BORINE  
CA 55.3410ORGAN,LIQUIDCAL D 0.8105 NO3496.0 04444444 T -0.  
C 12 H 33 N 1 N 3 P 1  
Mn 261.21 MI 46.23 MA 0.0901 HD 6.17 EM 30.86 GR 5.77

ETHYLDIETHYLSILYL ORTHOBORATE  
CA 54.4360ORGAN,LIQUIDAND D 0.8598 NO 280.0 04444444 T -0.  
C 12 H 33 B 1 O 351 3  
Mn 320.44 MI 50.44 MA 0.0815 HD 5.33 EM 28.15 GR 4.55

ETHOXYDIMETHYLSILICYL BORATE  
CA 47.8092ORGAN,UNKNOWNCAL D 1.0361 NO3499.0 04444444 T -0.  
C 12 H 33 B 1 O 451 3  
Mn 368.44 MI 53.41 MA 0.0905 HD 5.59 EM 28.16 GR 4.77

TRIS(DIETHYLSILYL)METHYL BORINE  
CA 53.1965ORGAN,LIQUIDEST D 0.8200 NO1295.0 04144444 T -0.  
C 12 H 33 B 1 O 151 3  
Mn 272.44 MI 47.47 MA 0.0860 HD 5.98 EM 28.15 GR 5.10

1,3,5-TRIETHYL-2,4,6-TRIS(ETHYLAMINO)BORAZINE  
CA 53.1811ORGAN,LIQUIDAND D 0.4150 NO 470.0 04444444 T -0.  
C 12 H 33 N 3 N 6 P 3  
Mn 793.90 MI 52.05 MA 0.0994 HD 6.31 EM 35.06 GR 6.70

TRIS-B-DIETHYLAMINO)BORAZINE  
CA 54.1298ORGAN,LIQUIDEST D 0.9300 NO1747.0 04444444 T -0.  
C 12 H 33 B 3 N 6  
Mn 243.40 MI 52.05 MA 0.0992 HD 6.29 EM 35.06 GR 6.68

BIS(DIETHYLCYANAMIDE)-DECABORANE-HYDROGEN-CYANIDE  
CA 44.8150ORGAN,UNKNOWNCAL D 0.2765 NO3500.0 04444444 T -0.  
C 12 H 34 B 10 N 6  
Mn 370.65 MI 59.84 MA 0.0969 HD 5.39 EM 45.53 GR 7.22

DIPETHYLPHOSPHINODIMETHOXYBORANE TRIMER  
AD142. 0280ORGAN,UNKNOWNCAL D 1.0155 NO4222.0 04444444 T -0.  
C 12 H 38 B 3 O 6 P 3  
Mn 401.80 MI 58.56 MA 0.0909 HD 5.59 EM 36.26 GR 5.63

DIETHYLPHOSPHINOBORINE TRIMER  
AD142. 0280ORGAN,UNKNOWNCAL D 0.4058 NO4223.0 04444444 T -0.  
C 12 H 38 B 3 P 3  
Mn 305.80 MI 52.62 MA 0.0939 HD 6.42 EM 36.26 GR 6.47

A 231

PENTABORON HYDRIDE-DIETHYLAMINE  
CA 52.1086ORGAN,LIQUIDAND D 0.8100 NO 471.0 04144444 T -0.  
C 12 H 42 B 5 N 3  
Mn 282.59 MI 59.78 MA 0.1032 HD 7.25 EM 41.21 GR 7.11

PENTABORON NONAHYDRIDE-DIETHYLAMINE  
CA 54.8394ORGAN,UNKNOWNEST D 0.8000 NO1797.0 04444444 T -0.  
C 12 H 42 B 5 N 3  
Mn 282.59 MI 59.78 MA 0.1019 HD 7.16 EM 41.21 GR 7.03

DECABORANE-TRIFETHYLAMINE  
CA 54.1179ORGAN, SOLIDCAL D 0.7742 NO3507.0 04444444 T 234.00  
C 12 H 42 B 10 N 3  
Mn 522.66 MI 63.56 MA 0.1097 HD 7.25 EM 47.09 GR 8.12

4/1 COPOLYMER OF ETHYL METHYLPHOSPHINOBORINE/METHYLPHOSPHINOBORINE  
WITH 5% 1260ORGAN,LIQUIDCAL D 1.3848 NO4130.0 04000410 T -0.  
C 12 H 35 B 5 P 5  
Mn 347.46 MI 65.22 MA 0.1369 HD 4.23 EM 48.55 GR 10.19

PENTABORANE-TRIS(AMINO)PHOSPHORAMINE  
NACN 1. 2430ORGAN, SOLIDEST D 0.8000 NO1798.0 04444444 T -0.  
C 12 H 45 B 5 N 4  
Mn 249.62 MI 63.85 MA 0.1027 HD 7.24 EM 44.49 GR 7.16

PENTAKIS(DIETHYLPHOSPHINOBORINE)TRIS(DIETHYLPHOSPHINOBORINE)  
AD142. 0280ORGAN, GLASSCAL D 1.1516 NO4225.0 04444444 T -0.  
C 12 H 48 B 7 P 1  
Mn 489.08 MI 73.42 MA 0.1061 HD 6.49 EM 57.92 GR 8.13

PENTABORANE-HEXAKIS(DIETHYLAMINE)  
PP 1.1782ORGAN, SOLIDEST D 0.8000 NO1299.0 04444444 T 60.00  
C 12 H 51 B 5 N 6  
Mn 333.64 MI 71.49 MA 0.1040 HD 7.36 EM 51.05 GR 7.37

7-NITROFLUORENE-4-ULAZONIUM FLUOROBATE  
CA 53.13120ORGAN, SOLIDCAL D 1.2920 NO3508.0 04444444 T 5.00  
C 13 H 8 B 1 F 4 N 3 O 2  
Mn 325.05 MI 29.85 MA 0.0715 HD 1.92 EM 11.01 GR 2.64

NON TRIFLUORIDE-HEXAPHENYLORAL  
CA 52.195140ORGAN,UNKNOWNEST D 1.1000 NO1100.0 04444444 T -0.  
C 13 H 10 B 1 F 3 O 1  
Mn 250.04 MI 26.36 MA 0.0698 HD 2.45 EM 9.16 GR 2.43

8-CHLORO-10-METHYL-10,9-BOKAZAROPHENANTHRENE  
CA 54. 7723ORGAN,LIQUIDEST D 0.4950 NO1101.0 04444444 T -0.  
C 13 H 11 B 1 CL 1 N 1  
Mn 227.52 MI 24.77 MA 0.0623 HD 2.77 EM 205.20 GR 51.61

A 230

CYCLOTRIMERIC(DIETHYLPHOSPHINO)DIETHYL BORINE  
CA 54.4160ORGAN, SOLIDCAL D 0.8088 NO3501.0 04044444 T 334.00  
C 12 H 36 B 3 P 3  
Mn 305.80 MI 52.62 MA 0.0939 HD 6.42 EM 36.26 GR 6.47

CYCLOTRIMERIC ISOPROPYL METHYL PHOSPHINOBORINE  
CA 54. 9760ORGAN,UNKNOWNCAL D 0.9058 NO3502.0 04444444 T -0.  
C 12 H 36 B 3 P 3  
Mn 305.80 MI 52.62 MA 0.0939 HD 6.42 EM 36.26 GR 6.47

CYCLOTRIMERIC DIETHYL PHOSPHINOBORINE  
PD 1.311800ORGAN,LIQUIDCAL D 0.9058 NO3503.0 04444444 T -6.50  
C 12 H 36 B 3 P 3  
Mn 305.80 MI 52.62 MA 0.0939 HD 6.42 EM 36.26 GR 6.47

HEXAMETHYLPHOSPHINOPENTACHLOROBORINE DIMER  
AD142. 0280ORGAN,UNKNOWNCAL D 1.3767 NO4221.0 04444444 T -0.  
C 12 H 36 B 6 CL 10 P 6  
Mn 785.76 MI 71.92 MA 0.0864 HD 4.55 EM1990.36 GR 240.41

TETRAKIS(DIBORON) TETRAFLUORIDE-2-TRIMETHYLAMINE  
NACN .494160ORGAN, SOLIDCAL D 1.2065 NO3504.0 04444444 T 5.00  
C 12 H 36 B 6 F 16 N 8  
Mn 683.04 MI 82.66 MA 0.0880 HD 3.03 EM 47.56 GR 5.06

DIETHYLOXONIUM TETRAFLUOROBORATE-2-DIETHYL ETHER  
CA 50. 7730ORGAN,LIQUIDCAL D 0.9596 NO3505.0 04444444 T -11.00  
C 12 H 37 B 1 F 4 O 3  
Mn 316.25 MI 55.82 MA 0.1020 HD 6.76 EM 29.04 GR 5.31

CALCIUM DIBORATE-TRIS(DIETHYLETHER)  
NACN .413310ORGAN,UNKNOWNCAL D 0.9130 NO4292.0 04144444 T -0.  
C 12 H 38 B 2 CA 1 O 3  
Mn 292.16 MI 54.21 MA 0.1020 HD 7.15 EM 34.85 GR 6.56

PENTAKIS(DICHLORODIETHYLPHOSPHINOBORINE) BIS(METHYL-PHOSPHINOBORINE)  
AD142. 0280ORGAN, SOLIDCAL D 1.7976 NO4224.0 04444444 T 180.00  
C 12 H 38 B 7 CL 10 P 7  
Mn 829.57 MI 75.82 MA 0.0940 HD 4.66 EM1995.04 GR 260.19

PENTABORON-BIS(THIETHYLAMINE)  
CA 54. 4394ORGAN,UNKNOWNCAL D 0.8000 NO1296.0 04444444 T -0.  
C 12 H 39 B 5 N 3  
Mn 265.56 MI 55.71 MA 0.1011 HD 7.08 EM 37.93 GR 6.88

DECABORANE-BIS(DIETHYLAMINE)-BIS-(METHYLCYANIDE)  
CA 54.117910ORGAN,UNKNOWNCAL D 0.9837 NO3506.0 04444444 T -0.  
C 12 H 40 B 10 N 4  
Mn 348.86 MI 83.70 MA 0.1082 HD 6.80 EM 47.78 GR 8.12

A 232

BORON TRICHLORIDE-14-STICHAZOLE  
CA 53. 2700ORGAN,UNKNOWNCAL D 1.3085 NO3509.0 04444444 T 5.00  
C 13 H 11 B 1 CL 3 N 1  
Mn 298.43 MI 27.17 MA 0.0718 HD 2.91 EM 594.04 GR 156.90

BORON TRIFLUORIDE-DIPHENYLCARBONYLIMINE  
NACN .472110ORGAN, SOLIDEST D 1.5000 NO1302.0 04444444 T -0.  
C 13 H 11 B 1 F 3 N 1  
Mn 244.86 MI 27.44 MA 0.0995 HD 3.99 EM 10.98 GR 1.74

BORON TRIFLUORIDE-DIPHENYLCARBONYLDIHYDROXYLAMINE  
CA 50. 8294ORGAN, SOLIDCAL D 1.1599 NO3510.0 04444444 T 147.50  
C 13 H 11 B 1 F 3 N 1 O 1  
Mn 265.00 MI 28.43 MA 0.0749 HD 2.90 EM 10.98 GR 2.89

8-CHLORO-CONTAINING GUANAZOLINE ANALOG  
CA 54. 16430ORGAN, SOLIDCAL D 1.0957 NO3511.0 04444444 T 219.50  
C 13 H 11 B 1 N 2  
Mn 227.07 MI 25.63 MA 0.0762 HD 3.27 EM 11.83 GR 3.52

1,3-DIHYDRO-2-PHENYL-1,3,2-BENZODIAZABOROLE-5-CARRIERYLIC ACID  
CA 54. 15030ORGAN, SOLIDCAL D 1.1107 NO3512.0 04444444 T 209.50  
C 13 H 11 B 1 N 2 O 2  
Mn 238.07 MI 26.62 MA 0.0748 HD 3.09 EM 11.84 GR 3.11

1,3-DIHYDRO-2-P-BENZOLIC ACID-1,3,2-BENZODIAZABOROLE  
CA 54. 15030ORGAN, SOLIDCAL D 1.1107 NO3513.0 04444444 T 281.50  
C 13 H 11 B 1 N 2 O 2  
Mn 238.07 MI 26.62 MA 0.0748 HD 3.09 EM 11.84 GR 3.11

10-METHYL-8-NITRO-10,9-BOKAZAROPHENANTHRENE  
CA 54. 77230ORGAN, SOLIDCAL D 1.1107 NO3514.0 04444444 T 165.50  
C 13 H 11 B 1 N 2  
Mn 238.07 MI 26.62 MA 0.0748 HD 3.09 EM 11.84 GR 3.11

10-METHOXY-8-NITRO-10,9-BOKAZAROPHENANTHRENE  
CA 54. 77230ORGAN, SOLIDCAL D 1.1241 NO3515.0 04444444 T 155.50  
C 13 H 11 B 1 N 2 O 3  
Mn 254.07 MI 27.61 MA 0.0736 HD 2.93 EM 11.84 GR 3.15

PARA-FORMYL-(PARA-NITROPHENYL)HYDRAZONE BENZENESULFONIC ACID  
CA 52.145550ORGAN, SOLIDCAL D 1.0840 NO3516.0 04444444 T -0.  
C 13 H 12 B 1 N 3 O 4  
Mn 285.08 MI 30.67 MA 0.0702 HD 2.75 EM 13.65 GR 3.11

9-METHOXY-9,10-BOKAZAROPHENANTHRENE  
CA 54.154000ORGAN, SOLIDEST D 1.0500 NO1850.0 04444444 T 64.00  
C 13 H 11 B 1 O 2  
Mn 210.05 MI 24.48 MA 0.0737 HD 3.31 EM 7.68 GR 2.71

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CA 92.134570RUGAN.UNKNOWEST D 1.0300 NO1314.0 04444444 F -0.
C 13 M 13 B 1 O 1
M# 196.07 MI 25.49 MA 0.0807 MD 4.11 EM 11.14 GR 3.53

HYDROXYPHENYL-ORIND-TOLYLBORANE
CA 91.134400RUGAN.LIQUIDEST D 1.0300 NO1315.0 04444444 F -0.
C 13 M 13 B 1 O 1
M# 196.07 MI 25.49 MA 0.0807 MD 4.11 EM 11.14 GR 3.53

PHENYL-PARA-TOLYLBORINIC ACID
CA 94.103970RUGAN.LIQUIDEST D 1.0300 NO1316.0 04444444 F -0.
C 13 M 13 B 1 O 1
M# 196.07 MI 25.49 MA 0.0807 MD 4.11 EM 11.14 GR 3.53

DIPHENYL METHYLBORINATE
CA 93.160630RUGAN.UNKNOWEST D 1.0200 NO1317.0 04444444 F -0.
C 13 M 13 B 1 O 2
M# 212.07 MI 28.48 MA 0.0767 MD 3.77 EM 11.14 GR 3.23

RIS-2-CHLOROETHYL-18-QUINOLYLBORONATE
CA 91.141080RUGAN. SOLIDCAL D 1.1211 NO3320.0 04444444 F 103.50
C 13 M 14 B 1CL 2 M 1 O 2
M# 298.00 MI 30.95 MA 0.0701 MD 3.17 EM 401.85 GR 91.07

IMETHYLANINO-DIPHENYLBORINE
CA 94.137600RUGAN.LIQUIDRNO D 1.0260 MD 282.0 04144444 F -0.
C 13 M 13 B 1 O 1
M# 195.08 MI 26.57 MA 0.0842 MD 4.44 EM 12.95 GR 4.10

ETHYL ORTHOPHENYLENE BORATE-PYRROLINE
CA 93.219080RUGAN. SOLIDCAL D 1.0007 NO3321.0 04444444 F 135.00
C 13 M 14 B 1 M 1 O 3
M# 243.08 MI 29.56 MA 0.0733 MD 3.47 EM 12.96 GR 3.21

DIPYRIDINE-ALLYL DICHLOROBORONITE COMPLEX
CA 91.29370RUGAN. SOLIDCAL D 1.2105 NO3322.0 04444444 F 61.00
C 13 M 15 B 1CL 2 M 2 O 1
M# 297.01 MI 32.03 MA 0.0786 MD 3.68 EM 403.66 GR 99.09

DIMETHYLBIMETHYLBIPHENYLBORININDIBORINE
CA 94.874200RUGAN.LIQUIDEST D 0.9700 NO1318.0 04444444 F -0.
C 13 M 16 B 1 M 1
M# 197.10 MI 28.57 MA 0.0847 MD 4.74 EM 14.42 GR 4.28

DIMETHYLB PHENYLBORONATE-PYRROLINE
CA 92.200800RUGAN.UNKNOWEST D 0.9600 NO1319.0 04444444 F -0.
C 13 M 16 B 1 M 1
M# 229.10 MI 30.35 MA 0.0771 MD 4.04 EM 14.43 GR 3.64

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BORDN TRIFLUORIDOB-N-METHYLDIPHENYLAMINE  
NACH 3.551320GR.H. SOLIDEST D 1.5700 MD1307.0 04144444 T -0.  
C 13 M 13 8 1 2 0 1  
MW 230.65 MI 29.47 NA 0.0918 MD 4.09 EM 599.56 GR 187.46

BORDN TRIFLUORIDOB-N-METHYLDIPHENYLAMINE  
CA 54.110120DORAN.UNKNOWEST D 1.3000 MD1308.0 04444444 T -0.  
C 13 M 13 8 1 2 0 1  
MW 231.07 MI 29.44 NA 0.1034 MD 4.08 EM 12.44 GR 4.48

1,3-DIMETHOXY-5-METHYL-2-PHENYL-(2H)-1,3,2-BENZODIAZABOROLE  
CA 54.150320DORAN. SOLIDEST D 1.1000 MD1309.0 04444444 T 224.50  
C 13 M 13 8 1 N 2  
MW 208.08 MI 28.64 NA 0.0848 MD 4.14 EM 13.30 GR 4.23

POLYMERIC BORDANOLONE  
P8 1.114920DORAN. SOLIDEST D 1.0200 MD 691.0 04444444 T 330.00  
C 13 M 13 8 1 N 2  
MW 208.08 MI 28.64 NA 0.0787 MD 3.84 EM 13.30 GR 3.93

6-AMINO-10-METHYL-10,9-BORAZAROPHENANTHRENE  
CA 54.17240DORAN. SOLIDEST D 1.1000 MD1310.0 04444444 T 129.50  
C 13 M 13 8 1 N 2  
MW 208.08 MI 28.64 NA 0.0848 MD 4.14 EM 13.30 GR 4.23

POLYMER OF PHENYLBORANES AND DIAMINODIBUENE  
AF336161 20370DORAN.POLYMERAL D 1.2171 MD4431.0 04444444 T -0.  
C 13 M 13 8 1 N 2  
MW 208.08 MI 28.64 NA 0.0939 MD 4.58 EM 13.30 GR 4.69

1,3-DIMETHOXY-2-(P-METHOXYPHENYL)-(2H)-1,3,2-BENZODIAZABOROLE  
CA 54. 15030DORAN. SOLIDEST D 1.1400 MD1311.0 04444444 T 230.00  
C 13 M 13 8 1 N 2 0 1  
MW 224.08 MI 27.63 NA 0.0847 MD 3.98 EM 13.30 GR 4.08

1,3-DIMETHOXY-5-METHOXY-2-PHENYL-(2H)-1,3,2-BENZODIAZABOROLE  
CA 54. 15030DORAN. SOLIDEST D 1.1400 MD1312.0 04444444 T 139.00  
C 13 M 13 8 1 N 2 0 1  
MW 224.08 MI 27.63 NA 0.0847 MD 3.98 EM 13.30 GR 4.08

METHOXY PHENYLBORANOLONE  
CA 51. 99130DORAN.LIQUIDKNO D 1.0320 MD 283.0 04444444 T -0.  
C 13 M 13 8 1 0 1  
MW 196.07 MI 25.44 NA 0.0808 MD 4.12 EM 11.14 GR 3.93

BENZYLPHENYLBORANOLIC ACID  
CA 52. 7190DORAN. SOLIDEST D 1.0900 MD1313.0 04444444 T -0.  
C 13 M 13 8 1 0 1  
MW 196.07 MI 25.44 NA 0.0842 MD 4.19 EM 11.14 GR 3.99

POLYMERIC NAPHTHALENE METHYL PHOSPHINODITHIOPHORIC BORANE  
CA 34, 13400RGAN, POLYMERICAL D 1.1699 NO4167.0 04444444 F -0.  
C 13 H 16 N 1 P 1  
MW 214.07 MI 28.83 MA 0.0949 MD 5.27 EM 15.17 GR 4.99

BORANE-METHYL (PARA)PHENYL PHOSPHINE  
CA 34, 13218ORGAN, UNKNOWNCAL D 1.0739 NO3523.0 04444444 F -0.  
C 13 H 10 B 1 P 1  
MW 216.07 MI 38.83 MA 0.0871 MD 4.83 EM 15.17 GR 4.58

N-16-NITRO-3-(4-EVYL)NIBOSYLAMINE ZI PRIME1,3I PRIME1-BORANE  
CA 34, 92280ORGAN, SOLIDLOCAL D 1.0986 NO3574.0 04444444 F 180.00  
C 15 H 17 B 1 N 2 O 2  
MW 326.11 MI 37.57 MA 0.0767 MD 3.47 EM 16.23 GR 5.92

3-SUBSTITUTED TRIPYCH-BUMOKAZULIDINE  
CA 34, 24681ORGAN, SOLIDLOCAL D 1.0090 NO3525.0 04444444 F 185.00  
C 13 H 18 B 1 N 1 O 4  
MW 263.11 MI 34.53 MA 0.0798 MD 4.16 EM 15.90 GR 3.67

BIS(2-METHYL-ALLYLOXY)CHLOROBORINE-PYRIDINE  
CA 34, 25370ORGAN, UNKNOWNCAL D 1.0114 NO3526.0 04444444 F -0.  
C 13 H 19 B 1 CL 1 N 1 U 2  
MW 267.58 MI 34.79 MA 0.0791 MU 4.33 EM 21.07 GR 45.06

B-(ISOBUTYL)BORATEFRANYDRONAPHTHALENE  
CA 34, 37240ORGAN, LIQUIDEST D 0.9100 NO1320.0 04444444 F -0.  
C 13 H 19 B 1  
MW 186.11 MI 30.50 MA 0.0898 MD 5.60 EM 15.34 GR 4.58

2,3-DIHYDRO-1-(ISOBUTYL-3-METHYL-1H)-1-BENZOBOROLE  
CA 34, 67240ORGAN, LIQUIDEST D 0.9100 NO1715.0 04444444 F -0.  
C 13 H 19 B 1  
MW 186.11 MI 30.50 MA 0.0898 MD 5.60 EM 15.34 GR 4.58

4-CHLORO-BUTYL CHLOROBORONATE-PYRIDINE  
CA 34, 77200ORGAN, UNKNOWNCAL D 1.1836 NO3527.0 04444444 F -0.  
C 13 H 21 B 1 CL 3 N 1 O 2  
MW 340.51 MI 39.15 MA 0.0820 MD 4.90 EM 601.43 GR 125.92

ISOBUTYRPHENYL (PROPYL)BORANE  
CA 34, 93200ORGAN, SOLIDMO D 0.8943 NO 100.0 04440440 F -0.  
C 13 H 21 B 1 O 1  
MW 206.13 MI 33.49 MA 0.0884 MD 5.54 EM 17.01 GR 4.49

DIPROPYL-O-TOLYL-BORANE  
CA 49, 10213ORGAN, LIQUIDNO D 0.9206 NO 284.0 04444444 F -0.  
C 13 H 21 B 1 O 2  
MW 220.13 MI 34.46 MA 0.0869 MD 5.29 EM 17.02 GR 4.29

A 237

## DIPROPIONYL-N-TOLYLBORANE

CA 40.10210ORGAN.LIQUIDKNO D 0.4226 NO 285.0 04444444 T -0.  
C 13 H 21 B 1 O 2  
MW 220.13 MI 34.48 MA 0.0870 MD 5.30 EM 17.02 GR 4.30

## DIPROPIONYL-P-TOLYLBORANE

CA 40.10210ORGAN.LIQUIDKNO D 0.9225 NO 287.0 04444444 T -0.  
C 13 H 21 B 1 O 2  
MW 220.13 MI 34.48 MA 0.0870 MD 5.30 EM 17.02 GR 4.30

## DIPROPYL TOLYLBORONATE

CA 53.57820ORGAN.UNKNOWEST D 0.9200 NO1716.0 04444444 T -0.  
C 13 H 21 B 1 O 2  
MW 220.13 MI 34.48 MA 0.0868 MD 5.29 EM 17.02 GR 4.28

## U-1ETHYLANINOISOBUTOXYTOLYLBORINE

CA 54.86840ORGAN.LIQUIDKNO D 0.9042 NO 286.0 04444444 T -0.  
C 13 H 22 B 1 N 1 O 1  
MW 219.15 MI 35.56 MA 0.0886 MD 5.47 EM 18.83 GR 4.68

## U-1ETHYLANINOISOBUTOXYTOLYLBORINE

CA 54.86840ORGAN.LIQUIDKNO D 0.9059 NO 289.0 04444444 T -0.  
C 13 H 22 B 1 N 1 O 1  
MW 219.15 MI 35.56 MA 0.0885 MD 5.48 EM 18.83 GR 4.69

## ETHYL DIMETHYL(PARA-1-METHYLTIO)-PHENYLIAMMONIUM TETRAFLUOROBORATE-

CA 54.12670ORGAN.SOLIDCAL D 0.8200 NO1720.0 04444444 T 117.00  
C 13 H 23 B 2 F 4 N 1 S 1  
MW 399.03 MI 48.16 MA 0.0837 HU 4.00 EM 22.30 GR 3.87

## BORON TRIFLUORIDE-(7-THIODECANONE)

CA 42.9930ORGAN.UNKNOWEST D 0.8676 NO3529.0 04444444 T -0.  
C 13 H 26 B 1 F 3 O 1  
MW 286.17 MI 42.36 MA 0.0851 HU 5.22 EM 20.90 GR 4.20

## BENZYL TRIETHYLAMMINIUM BOMATE

CA 54.2080ORGAN.UNKNOWEST D 1.0881 NO3530.0 04444444 T -0.  
C 13 H 29 B 1 N 1 O 1  
MW 220.19 MI 42.48 MA 0.0836 MD 4.19 EM 27.34 GR 4.37

## 3-SURSTRIPTYCH-BOROXAZOLIDINE

CA 54.24680ORGAN.SOLIDCAL D 0.8489 NO3531.0 04444444 T 126.50  
C 13 H 27 B 1 N 2 O 3  
MW 270.10 MI 44.61 MA 0.0825 HU 5.11 EM 23.58 GR 4.46

## DIPENTYL-2-PROPENE-1-BORONATE

CA 54.2980ORGAN.UNKNOWEST D 0.8700 NO1717.0 04444444 T -0.  
C 13 H 27 B 1 O 2  
MW 226.18 MI 40.48 MA 0.0938 HU 6.26 EM 21.42 GR 4.96

A 239

## ISOPENTYLDIFLUOROBORINE-BIS(MUTANOLI)

CA 54.19220ORGAN.LIQUIDKNO D 0.8891 NO1851.0 04444444 T -0.  
C 13 H 31 B 1 F 2 O 2  
MW 268.21 MI 47.06 MA 0.0940 MD 6.19 EM 24.90 GR 4.89

## BIS(DIETHYLANINOISOPENTYLBORINE)

CA 53.1200ORGAN.LIQUIDKNO D 0.8192 NO 473.0 04444444 T -0.  
C 13 H 31 B 1 N 2  
MW 226.23 MI 44.64 MA 0.0974 MD 6.76 EM 26.51 GR 5.78

## BIS(DIISOBUTYLANINOISOPENTYLBORINE)

CA 53.1200ORGAN.LIQUIDKNO D 0.8028 NO 474.0 04444444 T -0.  
C 13 H 31 B 1 N 2  
MW 226.23 MI 44.66 MA 0.0994 MD 6.63 EM 26.51 GR 5.67

## TRIMETHOXYBORANE-DIANYLAMINE

CA 47.73570ORGAN.SOLIDCAL D 0.7994 NO3531.0 04444444 T -0.  
C 13 H 32 B 1 N 3 O 3  
MW 261.23 MI 47.54 MA 0.0870 HU 5.89 EM 26.17 GR 4.74

## BORANE-DODECYLMETHYLPHOSPHINE

CA 54.9460ORGAN.UNKNOWEST D 0.7645 NO3536.0 04444444 T -0.  
C 13 H 32 B 1 P 1  
MW 230.19 MI 44.83 MA 0.0897 MD 6.40 EM 26.91 GR 5.38

## TRI-T-BUTYLBORINE-METHYLAMINE

CA 13.2300ORGAN.UNKNOWEST D 0.7800 NO1722.0 04444444 T -0.  
C 13 H 33 B 1 N 1  
MW 214.23 MI 48.97 MA 0.0949 MD 7.24 EM 26.90 GR 5.90

## BIS(DIETHYLSILYL)METHYLBORONATE

CA 54.1800ORGAN.UNKNOWEST D 0.9500 NO1723.0 04444444 T -0.  
C 18 H 33 B 1 O 2  
MW 288.41 MI 49.00 MA 0.0972 MD 6.55 EM 27.38 GR 5.43

## METHYL-BIS-(TRIETHYLSILYL)-BORATE

CA 54.1800ORGAN.LIQUIDKNO D 0.9375 NO3535.0 04444444 T -0.  
C 13 H 33 B 1 O 3  
MW 306.41 MI 49.99 MA 0.0927 MD 6.12 EM 27.39 GR 5.08

## TETRAKIS(METHYL ETHYLPHOSPHINO)BORANE

CA 54.2000ORGAN.LIQUIDKNO D 1.0980 NO4226.0 04444444 T -0.  
C 13 H 44 B 4 P 4  
MW 409.47 MI 88.03 MA 0.1088 MD 7.11 EM 48.57 GR 7.84

## ETHYLPHOSPHINO)BORANE POLYMER

CA 54.2000ORGAN.LIQUIDKNO D 1.1190 NO4148.0 04444444 T -0.  
C 13 H 44 B 4 P 4  
MW 409.47 MI 88.03 MA 0.1078 MD 7.18 EM 48.57 GR 10.14

A 238

## ETHYL LACTATE DISUTYL BORINATE

CA 53.60640ORGAN.UNKNOWEST D 0.8600 NO1716.0 04444444 T -0.  
C 13 H 27 B 1 O 3  
MW 242.18 MI 41.47 MA 0.0887 MD 5.28 EM 21.42 GR 4.88

## 2-(2,4-DIMETHYL-3-PENTYLOXY)-4,4,6-TRIMETHYL-1,3,2-DIOXABORINANE

CA 50.26570ORGAN.LIQUIDEST D 0.9200 NO1719.0 04444444 T -0.  
C 13 H 27 B 1 O 3  
MW 242.18 MI 41.47 MA 0.0949 MD 6.18 EM 21.42 GR 4.90

## 1-ETHOXYCARBONYLETHYL DI-N-BUTYL BORINATE

CA 53.60640ORGAN.LIQUIDKNO D 0.8224 NO4413.0 04444444 T -0.  
C 13 H 27 B 1 O 3  
MW 242.18 MI 41.47 MA 0.0848 MD 5.32 EM 21.42 GR 4.38

## DI-TERT-BUTYLPENTYLBORINE

CA 53.14920ORGAN.LIQUIDKNO D 0.7688 NO 478.0 04444444 T -0.  
C 13 H 29 B 1  
MW 196.19 MI 40.50 MA 0.0933 MD 6.83 EM 22.88 GR 5.39

## TERT-BUTYLISOBUTYLPENTYLBORINE

CA 53.60640ORGAN.LIQUIDKNO D 0.7506 NO 479.0 04444444 T -0.  
C 13 H 29 B 1  
MW 196.19 MI 40.50 MA 0.0933 MD 6.88 EM 22.80 GR 5.27

## CYCLODIPENTYLBORINE-BUTYLAMINE

CA 54.12670ORGAN.SOLIDEST D 0.8200 NO1720.0 04444444 T 117.00  
C 13 H 29 B 1 N 2  
MW 224.21 MI 42.64 MA 0.0939 HU 6.39 EM 25.04 GR 5.52

## ISOPENTYL DIISOBUTYLBORONATE

CA 54.24680ORGAN.LIQUIDKNO D 0.7907 NO3532.0 04444444 T -0.  
C 13 H 29 B 1 O 2  
MW 212.19 MI 41.49 MA 0.0931 MD 6.51 EM 22.68 GR 5.14

## DIISOPENTYL-3-METHYL-1-BUTANEBORONATE

CA 54.24680ORGAN.LIQUIDKNO D 0.8068 NO 290.0 04444444 T -0.  
C 13 H 29 B 1 O 2  
MW 220.19 MI 42.48 MA 0.1008 MD 6.85 EM 27.89 GR 5.43

## AMYLDIISOBUTYLBORANE

CA 54.24680ORGAN.LIQUIDKNO D 0.8200 NO 291.0 04444444 T -0.  
C 13 H 29 B 1 O 2  
MW 220.19 MI 42.46 MA 0.0919 MD 6.28 EM 22.89 GR 4.95

## DI-BUTYL-3-METHYLDITHIO-1-BUTANEBORONATE

CA 54.24680ORGAN.UNKNOWEST D 0.8776 NO1721.0 04444444 T -0.  
C 13 H 29 B 1 S 2  
MW 260.30 MI 43.10 MA 0.0845 MD 5.69 EM 24.40 GR 4.78

A 240

## TETRAKIS(DIETHYLPHOSPHINO)BORANE-1-METHYLBORINE-TRIMETHYLENEPHOSPHINE

CA 54.1800ORGAN.LIQUIDKNO D 1.1096 NO4227.0 04444444 T -0.  
C 13 H 48 B 6 P 6  
MW 455.30 MI 72.33 MA 0.1082 MD 7.05 EM 54.72 GR 8.03

## QUINALIZARIN BORON COMPLEX

CA 54.10630ORGAN.UNKNOWEST D 1.5466 NO3536.0 04444444 T -0.  
C 14 H 8 B 2 O 8  
MW 321.84 MI 27.20 MA 0.0782 MD 1.73 EM 7.42 GR 2.14

## DI-9-ANTHYLBORONIC ACID

CA 54.1800ORGAN.SOLIDEST D 1.1000 NO1330.0 04444444 T 152.50  
C 14 H 9 B 1 O 4  
MW 204.05 MI 22.30 MA 0.0724 MD 2.92 EM 8.22 GR 2.67

## TRIFLUOROACETIC ACID ANHYDRIDE WITH DIPHENYLBORONIC ACID

CA 53.60640ORGAN.SOLIDEST D 1.2000 NO1331.0 04444444 T 89.00  
C 14 H 10 B 1 F 3 O 2  
MW 278.05 MI 28.16 MA 0.0732 MD 2.20 EM 9.18 GR 3.39

## DIBENZODIB-MIBOROPIN

CA 54.21120ORGAN.UNKNOWEST D 1.1544 NO3537.0 04444444 T -0.  
C 14 H 11 B 1  
MW 190.06 MI 23.31 MA 0.0853 MD 4.02 EM 9.69 GR 3.55

## DIBENZODIBOROPIN

CA 54.21120ORGAN.UNKNOWEST D 1.1688 NO3538.0 04444444 T -0.  
C 14 H 11 B 1 O 1  
MW 206.06 MI 24.30 MA 0.0830 MD 3.76 EM 9.69 GR 3.31

## 9-PHENANTHRYLBORONIC ACID

CA 54.1800ORGAN.SOLIDEST D 1.2200 NO1332.0 04444444 T 324.00  
C 14 H 11 B 1 O 2  
MW 222.06 MI 26.29 MA 0.0837 MD 3.64 EM 9.69 GR 3.21

## 2,4-DIPHENYL-6-TRICHLOROMETHYL-1,3,5,2,4-TRIOXABORINANE

CA 54.1800ORGAN.SOLIDCAL D 1.3895 NO3539.0 04444444 T 116.50  
C 14 H 11 B 1 Cl 3 O 3  
MW 355.25 MI 30.85 MA 0.0727 MD 2.59 EM 99.42 GR 140.04

## 2,2,2-TRIFLUOROETHYL DIPHENYLBORONATE

CA 54.2000ORGAN.LIQUIDKNO D 1.1708 NO 841.0 04444444 T -0.  
C 14 H 12 B 1 F 3 O 1  
MW 264.07 MI 29.17 MA 0.0779 MD 3.20 EM 10.65 GR 2.84

## 1,2-DIHYDRO-2-PHENYL-1,2-BENZAZABORINE

CA 54.4600ORGAN.SOLIDEST D 1.1000 NO1333.0 04444444 T 138.00  
C 14 H 12 B 1 N 1  
MW 205.08 MI 25.38 MA 0.0820 MD 3.88 EM 11.50 GR 3.72

A 241

3-BENZAMIDO-5-BORONO-BENZOTIC ACID DEHYDRATE  
CA 52.14550ORGAN.UNKNOWEST D 1.1682 NO3582.0 04444444 T 5.00  
C 14 H 16 B 1 N 1 O 7  
Mn 321.11 MI 36.31 MA 0.0794 MD 3.50 EM 14.45 GR 3.16

DIPHENYLACETYLENE-2,2-PRIME-DIBORONIC ACID  
CA 54.14150ORGAN.UNKNOWEST D 1.0800 NO1334.0 04444444 T -0.  
C 14 H 12 B 2 O 4  
Mn 265.89 MI 24.24 MA 0.0715 MD 2.94 EM 11.82 GR 2.89

1-BENZOKABONIN-3-YL-ORTHO-1-HYDROXY-1H-2-BENZENEBORONIC ACID  
CA 54.46080ORGAN.UNKNOWEST D 1.1800 NO1335.0 04444444 T -0.  
C 14 H 12 B 2 O 4  
Mn 265.89 MI 24.24 MA 0.0782 MD 3.21 EM 11.82 GR 3.16

CYCLOBENZENE-BORONVINYLBENZENE-BORONIC ACID  
CA 54.14150ORGAN. SOLIDEST D 1.1800 NO1336.0 04444444 T 201.50  
C 14 H 12 B 2 O 4  
Mn 265.89 MI 24.24 MA 0.0782 MD 3.21 EM 11.82 GR 3.16

BURON TRIFLUORIDE-10-DIPHENYLFORMYL-METHYLHYDROXYLAMINE  
CA 50.03240ORGAN.UNKNOWEST D 1.1040 NO3540.0 04444444 T -0.  
C 14 H 13 B 1 F 3 N 1 O 1  
Mn 279.09 MI 31.26 MA 0.0744 MD 3.10 EM 12.46 GR 2.97

BURON TRIFLUORIDE-10-DIPHENYLFORMYL-ACETYLHYDROXYLAMINE  
CA 50.03240ORGAN.UNKNOWEST D 1.1150 NO3541.0 04444444 T -0.  
C 14 H 13 B 1 F 3 N 1 O 2  
Mn 245.09 MI 32.23 MA 0.0734 MD 2.94 EM 12.46 GR 2.84

1,3-DIHYDRO-2-P-VINYLPHENYL-(2H)-1,3,2-BENZODIAZANOROLE  
CA 54.14150ORGAN. SOLIDEST D 1.1200 NO1337.0 04444444 T 243.00  
C 14 H 13 B 1 N 2  
Mn 220.00 MI 27.95 MA 0.0841 MD 3.95 EM 13.32 GR 4.08

10-HYDRO-5-NITRO-10,7-BORAZAPHENANTHRENE  
CA 54.77230ORGAN. SOLIDEST D 1.0711 NO3542.0 04114444 T 173.00  
C 14 H 13 B 1 N 2 O 3  
Mn 268.04 MI 30.42 MA 0.0732 MD 3.13 EM 13.32 GR 3.21

BENZYL-4-BORONO-3-NITRO-CARBANILATE  
CA 52.14550ORGAN. SOLIDEST D 1.1080 NO3543.0 04444444 T -0.  
C 14 H 13 B 1 N 2 O 6  
Mn 316.09 MI 33.39 MA 0.0709 MD 2.74 EM 13.33 GR 2.81

ETHYL DI-(10H)-N-(DIPHENYL) BORATE  
CA 51.27700ORGAN. LIQUIDAL D 1.1183 NO3544.0 04444444 T -0.  
C 14 H 15 B 1 N 2 O 7  
Mn 332.09 MI 34.38 MA 0.0697 MD 2.64 EM 13.33 GR 2.70

A 243

PARA-PHENETHYLBENZENE-BORONIC ACID  
CA 54.79640ORGAN.UNKNOWEST D 0.9200 NO1349.0 04444444 T -0.  
C 14 H 15 B 1 O 2  
Mn 226.04 MI 29.29 MA 0.0718 MD 3.68 EM 12.63 GR 3.10

HYDROXYDI-(PARA-RETHOXYPHENYL) BORANE  
CA 53.42710ORGAN. SOLIDEST D 1.3100 NO1344.0 04444444 T 107.00  
C 14 H 15 B 1 O 3  
Mn 242.04 MI 30.28 MA 0.0761 MD 3.77 EM 12.63 GR 3.17

DI-PARA-ANISYLBORIC ACID  
CA 52.33400ORGAN. SOLIDEST D 1.0336 NO1548.0 04444444 T 104.50  
C 14 H 15 B 1 O 3  
Mn 274.09 MI 32.26 MA 0.0733 MD 3.51 EM 12.63 GR 2.87

BORIC ACID-BENZOTIN  
CA 52.26530ORGAN.UNKNOWEST D 1.0336 NO3549.0 04444444 T -0.  
C 14 H 15 B 1 O 5  
Mn 274.09 MI 32.26 MA 0.0733 MD 3.51 EM 12.63 GR 2.87

CHLOROISOBUTYL-1-NAPHTHYLBORANE  
CA 51.49850ORGAN. LIQUIDAL D 1.0410 NO 293.0 04444444 T -0.  
C 14 H 16 B 1 Cl 1 O 1  
Mn 246.96 MI 30.50 MA 0.0813 MD 4.26 EM 207.81 GR 55.39

DIMETHYLDIPHENYLAMMONIUM TETRAFLUORATE  
CA 54.110320ORGAN. SOLIDEST D 1.1340 NO3550.0 04444444 T 202.00  
C 14 H 16 B 1 F 4 N 1  
Mn 285.11 MI 34.54 MA 0.0828 MD 3.83 EM 14.73 GR 3.53

ETHYLBORONODIPHENYLBORINE  
CA 54.13760ORGAN. LIQUIDAL D 1.0020 NO 296.0 04444444 T -0.  
C 14 H 16 B 1 N 1  
Mn 204.11 MI 24.38 MA 0.0848 MD 4.62 EM 14.44 GR 4.17

2-AMINOETHYL DIPHENYLBORONATE  
CA 53.80350ORGAN. SOLIDEST D 0.9900 NO1345.0 04444444 T 189.00  
C 14 H 16 B 1 N 1 O 1  
Mn 275.11 MI 30.37 MA 0.0804 MD 4.24 EM 14.44 GR 3.83

1,3-DIHYDRO-2-(1-NAPHTHYL)-1,3,6,2-DIOXAZANOROLE  
CA 50.95900ORGAN. SOLIDEST D 1.0400 NO1346.0 04444444 T 242.50  
C 14 H 16 B 1 N 1 O 2  
Mn 241.11 MI 31.36 MA 0.0830 MD 4.24 EM 14.44 GR 3.87

UNTHO-PHENYLENE PROPYL BORATE-PYRIDINE  
CA 53.21900ORGAN. SOLIDEST D 1.0959 NO3551.0 04444444 T 19.50  
C 14 H 16 B 1 N 1 O 3  
Mn 257.11 MI 32.35 MA 0.0831 MD 4.11 EM 14.44 GR 3.71

A 242

DIPHENYLBORONIC ACID ANHYDRIDE WITH ACETIC ACID  
CA 53.12030ORGAN.UNKNOWEST D 1.0200 NO1338.0 04444444 T -0.  
C 14 H 13 B 1 O 2  
Mn 224.08 MI 27.29 MA 0.0748 MD 3.96 EM 11.16 GR 3.06

2-AMINOETHYL BIS(PARA-CHLOROPHENYL) BORONATE  
CA 53.80350ORGAN. SOLIDEST D 1.1427 NO3545.0 04444444 T 223.50  
C 14 H 14 B 1 Cl 2 N 1 O 1  
Mn 294.01 MI 30.77 MA 0.0720 MD 3.28 EM 401.86 GR 94.08

DI-ORTHO-ANISYLBORONIC ACID  
CA 54.14150ORGAN. SOLIDEST D 1.1000 NO1339.0 04444444 T -0.  
C 14 H 14 B 1 F 1 O 2  
Mn 244.09 MI 24.58 MA 0.0803 MD 3.80 EM 11.97 GR 3.25

LITHIUMDIORTHOTOLYLBORINE  
CA 54.10960ORGAN.UNKNOWEST D 1.0936 NO3546.0 04444444 T -0.  
C 14 H 14 B 1 Li 1  
Mn 200.03 MI 27.32 MA 0.0900 MD 4.61 EM 11.97 GR 3.94

6-ETHYL-9,6-DIHYDRO-DIBENZIC, 1,1,1,2,2-AZABORINE  
CA 53.13680ORGAN.UNKNOWEST D 1.1000 NO1360.0 04444444 T -0.  
C 14 H 14 B 1 N 1  
Mn 207.09 MI 27.38 MA 0.0876 MD 4.48 EM 12.97 GR 4.15

AZINE ORIPARA-POMPHYLPHENYLDIHYDROXYBORANE  
CA 51.14930ORGAN.UNKNOWEST D 1.0693 NO3547.0 04444444 T -0.  
C 14 H 14 B 1 F 2 O 4  
Mn 295.92 MI 33.30 MA 0.0727 MD 3.05 EM 15.65 GR 3.36

SEMIBIC ACID-2,4-DIMETHYLENEBORONIC-1,3,2-BENZODIAZANOROLE MONOHYDRATE  
CA 53.21470ORGAN. SOLIDEST D 1.1253 NO3554.0 04444444 T 224.50  
C 14 H 17 B 1 F 2 O 4  
Mn 298.11 MI 35.95 MA 0.0815 MD 3.87 EM 14.25 GR 3.24

ETHYL DIPHENYLBORONATE  
CA 51.95130ORGAN. LIQUIDAL D 1.0090 NO 292.0 04444444 T -0.  
C 14 H 15 B 1 O 1  
Mn 210.09 MI 28.30 MA 0.0815 MD 4.32 EM 12.63 GR 3.64

DI-ORTHO-TOLYLBORONIC ACID  
CA 52.17140ORGAN. SOLIDEST D 1.0000 NO1341.0 04444444 T 65.00  
C 14 H 15 B 1 O 1  
Mn 210.09 MI 28.30 MA 0.0811 MD 4.30 EM 12.63 GR 3.67

DI-PARA-TOLYLBORONIC ACID  
CA 54.105120ORGAN. SOLIDEST D 1.0000 NO1342.0 04444444 T 65.50  
C 14 H 15 B 1 O 1  
Mn 210.09 MI 28.30 MA 0.0811 MD 4.30 EM 12.63 GR 3.67

A 244

DI-PARA-TOLYLPHOSPHINOBORINE  
CA 51.16200ORGAN. SOLIDEST D 1.1185 NO4228.0 04444444 T 201.00  
C 14 H 16 B 1 P 1  
Mn 226.08 MI 24.64 MA 0.0803 MD 4.77 EM 15.18 GR 4.52

DI(PARA-TOLYLPHOSPHINOBORINE  
CA 54.13400ORGAN.UNKNOWEST D 1.1185 NO3553.0 04444444 T 5.00  
C 14 H 16 B 1 P 1  
Mn 226.08 MI 24.64 MA 0.0803 MD 4.77 EM 15.18 GR 4.52

DI(METHYLPHENYLBORONOXIDIDE  
CA 54.86840ORGAN. LIQUIDAL D 0.9686 NO 297.0 04444444 T -0.  
C 14 H 16 B 1 P 1  
Mn 221.92 MI 30.27 MA 0.0794 MD 4.20 EM 14.75 GR 3.87

MINIENYL-2,2-PRIME-BIS(DIHYDROXYBORANE)  
CA 51.145030ORGAN.UNKNOWEST D 1.1000 NO1347.0 04444444 T -0.  
C 14 H 16 B 2 O 4  
Mn 249.92 MI 33.24 MA 0.0816 MD 3.93 EM 14.76 GR 3.62

2-METHYLLYL DICHLOROBORONATE-BISPYRIDINE  
CA 51.25370ORGAN.UNKNOWEST D 1.1663 NO3555.0 04444444 T -0.  
C 14 H 17 B 1 Cl 2 N 2 O 1  
Mn 311.04 MI 34.84 MA 0.0787 MD 3.84 EM 405.14 GR 91.50

DIETHYL 1-NAPHTHYLBORONATE  
CA 53.42700ORGAN. LIQUIDEST D 1.0200 NO1348.0 04444444 T -0.  
C 14 H 17 B 1 O 1  
Mn 228.11 MI 31.29 MA 0.0843 MD 4.58 EM 14.10 GR 3.80

DIALYLPARA-VINYLBORONATE  
CA 54.17320ORGAN.UNKNOWEST D 1.0336 NO4401.0 04444444 T -0.  
C 14 H 17 B 1 O 2  
Mn 228.11 MI 31.29 MA 0.0854 MD 4.64 EM 14.10 GR 3.85

2-PHENYL-4,5-DICARBETHYL-1,3,2-DIOXANOROLE  
CA 49.11560ORGAN. SOLIDEST D 1.1165 NO3556.0 04444444 T 47.00  
C 14 H 17 B 1 O 4  
Mn 292.11 MI 35.25 MA 0.0812 MD 1.91 EM 14.10 GR 3.25

MESITYLBORINE-PYRIDINE  
CA 53.70460ORGAN. SOLIDEST D 1.3500 NO1349.0 04444444 T 117.00  
C 14 H 18 B 1 N 1  
Mn 211.13 MI 31.38 MA 0.1209 MD 6.93 EM 15.91 GR 6.13

DI(PARA-HYDROXYPHENYL)BORONATE-DIMETHYLAMINE  
CA 54.18410ORGAN.UNKNOWEST D 1.0446 NO3557.0 04444444 T -0.  
C 14 H 18 B 1 N 1 O 4  
Mn 275.13 MI 35.36 MA 0.0808 MD 4.12 EM 15.91 GR 3.64

A 245

DI-PARA-TOLYLPHOSPHINE-BORANE  
CA 54.18210ORGAN. UNKNOWCAL D 0.0337 NO3558.0 04444444 T -0.  
C 14 H 14 B 1 P 1  
MW 226.09 MI 31.66 NA 0.0864 MD 4.91 EM 16.65 GR 4.55

BIS(DIORTHOTOLYLBORINE)  
CA 54.24632ORGAN. SOLIDCAL D 0.9757 NO3554.0 04444444 T 94.00  
C 14 H 18 B 2  
MW 207.94 MI 31.28 NA 0.0884 MD 5.09 EM 16.22 GR 4.58

BENZOYL CHLORIDE AND 3-AMINOMETHYL-TRIPTYCH-BOROXAZOLIDINE  
CA 54.24632ORGAN. SOLIDCAL D 0.0158 NO3560.0 04444444 T 165.50  
C 14 H 18 B 1 N 2 O 4  
MW 290.14 MI 37.41 NA 0.0789 MD 4.01 EM 17.73 GR 3.74

POLYMERIC BOROXAZOLIDE FROM 1,8-DIISOCYANOMERANE AND PHENYLBORONIC AC  
ID  
CA 44.97300ORGAN. SOLPOLCAL D 1.1067 NO4402.0 04444444 T -0.  
C 14 H 18 B 1 N 2 O 4  
MW 290.14 MI 37.41 NA 0.0859 MD 4.37 EM 17.73 GR 4.07

DI(METHYLAMINE)-CHLORODIPHENYLBORINE  
CA 54.13760ORGAN. SOLIDCAL D 0.9759 NO3561.0 04444444 T 165.00  
C 14 H 20 B 1 N 2  
MW 262.61 MI 35.69 NA 0.0798 MD 4.48 EM 212.90 GR 47.66

TRIALKYLBORINE-PYRIDINE  
CA 54.12690ORGAN. LIQUIDEST D 1.0500 NO1330.0 04444444 T -0.  
C 14 H 20 B 1 N 1  
MW 213.14 MI 33.38 NA 0.0990 MD 5.93 EM 17.37 GR 5.16

AMMONIUM DIHYDROXYDIORTHOTOLYLBORATE  
CA 52.17140ORGAN. SOLIDEST D 1.1000 NO1351.0 04444444 T 98.50  
C 14 H 20 B 1 N 1 O 2  
MW 245.14 MI 35.36 NA 0.0956 MD 5.41 EM 17.38 GR 4.70

AMMONIUM DIHYDROXYDIPARATOLYLBORATE  
CA 52.17140ORGAN. SOLIDEST D 1.1000 NO1352.0 04444444 T 90.00  
C 14 H 20 B 1 N 1 O 2  
MW 245.14 MI 35.36 NA 0.0956 MD 5.41 EM 17.38 GR 4.70

3-SUBSTITUTED TRIPTYCH-BOROXAZOLIDINE  
CA 54.24632ORGAN. SOLIDCAL D 0.9831 NO3562.0 04444444 T 109.00  
C 14 H 20 B 1 N 1 O 4  
MW 277.14 MI 37.36 NA 0.0798 MD 4.27 EM 17.38 GR 3.71

PHENYLSOCYANATE AND 3-AMINOMETHYL-TRIPTYCH-BOROXAZOLIDINE  
CA 54.24632ORGAN. SOLIDCAL D 0.9912 NO3563.0 04444444 T 205.00  
C 14 H 20 B 1 N 1 O 4  
MW 305.16 MI 39.48 NA 0.0772 MD 3.91 EM 19.54 GR 5.02

A 246

PHENYL DI-BUTYLBORINATE  
CA 54.26100ORGAN. LIQUIDKNO D 0.8798 NO 298.0 04444444 T -0.  
C 14 H 23 B 1 O 1  
MW 216.16 MI 38.30 NA 0.0882 MD 5.59 EM 18.50 GR 4.49

BUTYLISOBUTORYPHENYLBORANE  
CA 54.93200ORGAN. LIQUIDKNO D 0.8894 NO 299.0 04444444 T -0.  
C 14 H 23 B 1 O 1  
MW 216.16 MI 38.30 NA 0.0891 MD 5.65 EM 18.50 GR 4.54

DIISOBUTYL BENZENE-BORONATE  
CA 52.29200ORGAN. LIQUIDKNO D 0.9153 NO 495.0 04444444 T -0.  
C 14 H 23 B 1 O 2  
MW 234.16 MI 37.29 NA 0.0878 MD 5.42 EM 18.50 GR 4.36

DI-BUTORYPHENYLBORANE  
CA 49.10210ORGAN. LIQUIDKNO D 0.9160 NO 302.0 04444444 T -0.  
C 14 H 23 B 1 O 2  
MW 234.16 MI 37.29 NA 0.0879 MD 5.42 EM 18.50 GR 4.36

DI-SEC-BUTORYPHENYLBORANE  
CA 50.21800ORGAN. LIQUIDKNO D 0.9073 NO 300.0 04444444 T -0.  
C 14 H 23 B 1 O 2  
MW 234.16 MI 37.29 NA 0.0870 MD 5.37 EM 18.50 GR 4.37

DI-T-BUTORYPHENYLBORANE  
CA 50.21800ORGAN. LIQUIDKNO D 0.9053 NO 301.0 04444444 T -0.  
C 14 H 23 B 1 O 2  
MW 234.16 MI 37.29 NA 0.0868 MD 5.36 EM 18.50 GR 4.31

DIISOBUTORY PHENYLBORANE  
CA 50.21800ORGAN. LIQUIDKNO D 0.9163 NO 304.0 04444444 T -0.  
C 14 H 23 B 1 O 2  
MW 234.16 MI 37.29 NA 0.0879 MD 5.42 EM 18.50 GR 4.36

PHENYLDIISOBUTYLBORATE  
CA 54.20940ORGAN. UNKNOWCAL D 0.9512 NO3566.0 04444444 T -0.  
C 14 H 23 B 1 O 3  
MW 250.16 MI 38.28 NA 0.0877 MD 5.27 EM 18.50 GR 4.74

BUTYLPHENYLDIISOBUTYLBORINATE  
CA 54.24632ORGAN. LIQUIDKNO D 0.9796 NO3567.0 04444444 T -0.  
C 14 H 23 B 1 O 3  
MW 234.22 MI 36.61 NA 0.0875 MD 5.50 EM 19.25 GR 4.60

DI-BUTYL DIIMIDOBENZENE-BORONATE  
CA 54.51400ORGAN. LIQUIDKNO D 0.9865 NO 305.0 04444444 T -0.  
C 14 H 23 B 1 O 3  
MW 260.28 MI 37.91 NA 0.0846 MD 5.13 EM 20.01 GR 4.47

A 246

3-SUBSTITUTED TRIPTYCH-BOROXAZOLIDINE  
CA 54.24632ORGAN. SOLIDCAL D 0.9396 NO3564.0 04444444 T 174.50  
C 14 H 21 B 1 N 2 O 3  
MW 276.13 MI 38.42 NA 0.0787 MD 4.30 EM 19.19 GR 3.93

OCTYL O-THIO-PHENYLENE BORATE  
CA 53.81900ORGAN. LIQUIDKNO D 1.0158 NO 500.0 04444444 T -0.  
C 14 H 21 B 1 O 3  
MW 248.14 MI 36.28 NA 0.0895 MD 5.18 EM 17.03 GR 4.20

CHLORODI-OCTYLOXYPHENYLBORANE  
CA 50.13800ORGAN. LIQUIDKNO D 0.9630 NO 294.0 04444444 T -0.  
C 14 H 22 B 1 O 1  
MW 252.61 MI 36.50 NA 0.0840 MD 5.06 EM 212.21 GR 48.83

CHLORODI-OCTYLOXYPHENYLBORANE  
CA 52.29200ORGAN. LIQUIDKNO D 0.9630 NO 304.0 04444444 T -0.  
C 14 H 22 B 1 O 1  
MW 252.61 MI 36.50 NA 0.0838 MD 5.05 EM 212.21 GR 48.73

CHLORODI-ALPHA-METHYLBENZYL-OCTYLOXYPHENYLBORANE  
CA 53.57800ORGAN. UNKNOWCAL D 1.0900 NO1393.0 04444444 T -0.  
C 14 H 22 B 1 O 1  
MW 252.61 MI 36.50 NA 0.0949 MD 5.72 EM 212.21 GR 55.16

P-CHLORODIPHENYL DI-ISOBUTORYBORANE  
CA 50.11960ORGAN. LIQUIDKNO D 1.0051 NO 295.0 04444444 T -0.  
C 14 H 22 B 1 O 2  
MW 268.61 MI 37.49 NA 0.0845 MD 4.96 EM 212.21 GR 47.83

DI-BUTYL-PARA-CHLOROPHENYLBORONATE  
CA 53.42710ORGAN. LIQUIDEST D 1.0100 NO1354.0 04444444 T -0.  
C 14 H 22 B 1 O 2  
MW 268.61 MI 37.49 NA 0.0849 MD 4.96 EM 212.21 GR 48.06

ORTHO-PHENYLENE DI-BUTYLAMINO-BORONATE  
CA 53.81900ORGAN. LIQUIDEST D 0.9700 NO1355.0 04444444 T -0.  
C 14 H 22 B 1 N 1 O 2  
MW 247.16 MI 37.36 NA 0.0883 MD 5.20 EM 18.84 GR 4.43

ORTHOMETROPHENYL DI-TERT-BUTOXYPEROXYBORONATE  
CA 52.61900ORGAN. LIQUIDCAL D 1.0762 NO3565.0 04444444 T 19.00  
C 14 H 22 B 1 N 1 O 7  
MW 327.16 MI 42.31 NA 0.0838 MD 4.36 EM 18.89 GR 3.74

BIS(DIETHANOLAMINO)IMIDOBENZENE-1,4-DI-BORONATE  
CA 54.19590ORGAN. UNKNOWCAL D 1.0646 NO4403.0 04444444 T -0.  
C 14 H 22 B 2 N 2 O 4  
MW 303.89 MI 41.38 NA 0.0856 MD 4.95 EM 21.32 GR 4.41

A 248

LITHIUM MONOPHENYLBOROHYDROXIDE-BIS(DI)ORANATE  
CA 53.12040ORGAN. UNKNOWCAL D 0.9998 NO3568.0 04444444 T -0.  
C 14 H 24 B 1 O 4  
MW 276.13 MI 41.28 NA 0.0907 MD 5.27 EM 19.31 GR 4.24

ANILINODI-BUTYLBORINE  
CA 54.26100ORGAN. LIQUIDKNO D 0.8808 NO 304.0 04444444 T -0.  
C 14 H 24 B 1 N 1  
MW 217.17 MI 37.38 NA 0.0913 MD 5.86 EM 20.31 GR 4.66

DIETHYLANILINODIISOBUTORYPHENYLBORANE  
CA 51.15440ORGAN. LIQUIDKNO D 0.8931 NO 307.0 04444444 T -0.  
C 14 H 24 B 1 N 1 O 1  
MW 233.17 MI 38.37 NA 0.0885 MD 5.94 EM 20.31 GR 4.69

POLYMERIC PHENYLOCTYLPHOSPHINOBORINE  
CA 54.15400ORGAN. POLMERCAL D 1.2540 NO4140.0 04444444 T -0.  
C 14 H 24 B 1 P 1  
MW 216.14 MI 37.64 NA 0.1214 MD 7.74 EM 21.05 GR 6.79

SODIUM DIISOBUTORYDIANILINDIPHENYL BORATE  
CA 54.13030ORGAN. UNKNOWCAL D 0.9644 NO3569.0 04444444 T -0.  
C 14 H 25 B 1 N 1 O 2  
MW 273.17 MI 41.57 NA 0.0884 MD 5.32 EM 24.94 GR 5.10

DI-BUTYL-2-PHENYL HYDRAZOBORINE  
CA 53.15950ORGAN. LIQUIDKNO D 0.9150 NO 484.0 04444444 T -0.  
C 14 H 25 B 1 N 2  
MW 232.19 MI 39.45 NA 0.0936 MD 5.93 EM 22.12 GR 5.25

BIS(DIETHYLANILINO)PHENYLBORINE  
CA 54.51400ORGAN. LIQUIDKNO D 0.9406 NO 303.0 04444444 T -0.  
C 14 H 25 B 1 N 2  
MW 232.19 MI 39.45 NA 0.0933 MD 6.10 EM 22.12 GR 5.40

BORANE-PHENYLOCTYLPHOSPHINE  
CA 54.15210ORGAN. UNKNOWCAL D 0.8727 NO3570.0 04444444 T -0.  
C 14 H 26 B 1 P 1  
MW 236.16 MI 39.64 NA 0.0882 MD 5.79 EM 22.52 GR 5.01

ETHYL 3-HYDROXYCROTONYL DI-BUTYLBORINATE  
CA 53.60640ORGAN. LIQUIDEST D 0.9000 NO1356.0 04444444 T -0.  
C 14 H 27 B 1 O 3  
MW 254.19 MI 42.28 NA 0.0902 MD 5.74 EM 21.94 GR 4.57

1-METHYLVINYL DI-BUTYLBORINATE  
CA 52.79310ORGAN. LIQUIDCAL D 0.8558 NO4484.0 04444444 T -0.  
C 14 H 27 B 1 O 3  
MW 254.19 MI 42.28 NA 0.0857 MD 5.48 EM 21.94 GR 4.55

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BUTYL DIISOBUTYLTHIOBROMINATE
  CA 94% 240ORGAN.LIQUIDKND D 0.8219 MD 304.0 04444444 T -0.
  C 14 M 31 B 1 S 2
  Mn 242.20 M 1 45.91 MA 0.0912 MD 8.03 EM 25.13 GR 5.13

HEXYLODIISOBUTYLTHIOBROMINE
  CA 55% 240ORGAN.LIQUIDKND D 0.8860 MD 83.0 04440440 T -0.
  C 14 M 31 B 1 S 2
  Mn 276.34 M 1 45.91 MA 0.0893 MD 8.03 EM 25.78 GR 5.04

DIPENTYL BUTYLTHIOBROMONATE
  CA 54.1410ORGAN.LIQUIDCAL D 0.8900 MD3579.0 04444444 T -0.
  C 14 H 31 B 1 S 2
  Mn 275.94 M 1 45.91 MA 0.0897 MD 8.08 EM 25.88 GR 5.06

DIPENTYL 1-BUTYLTHIOBROMINATE
  CA 54.1410ORGAN.LIQUIDCAL D 0.8900 MD3580.0 04444444 T -0.
  C 14 H 31 B 1 S 2
  Mn 276.34 M 1 45.91 MA 0.0897 MD 8.08 EM 25.95 GR 5.06

Z-AMINOETHYL DIMETHYLBORINATE
  CA 94% 240ORGAN.UNKNOWNEST D 0.9000 MD1366.0 04444444 T -0.
  C 14 M 32 B 1 M 1 U 1
  Mn 261.24 M 1 46.37 MA 0.1042 MD 7.19 EM 26.18 GR 5.88

CHLORODIETHYLBORONINE-TRIMETHYLAMINE
  CA 49.73270ORGAN.UNKNOWNEST D 0.9000 MD1367.0 04444444 T -0.
  C 14 M 33 B 1 C 1
  Mn 261.70 M 1 47.38 MA 0.0986 MD 8.04 EM 22.136 GR 45.85

HEXYLCLIFLUBORONINE-BISBUTANOL
  CA 54.15220ORGAN.LIQUIDEST D 0.8901 MD1852.0 04444444 T -0.
  C 14 M 33 B 1 F 2 O 2
  Mn 282.24 M 1 49.87 MA 0.0947 MD 8.27 EM 25.99 GR 4.94

LITHIUM TRIBUTYLHYDROBORATE-0.5-DIETHYL ETHER
  CA 47% 3270ORGAN. SOLIDCAL D 0.8045 MD3981.0 04444444 T -0.
  C 20 M 66 B 2 LI 2 O 7
  Mn 550.36 M 1 99.57 MA 0.0877 MD 5.81 EM 31.83 GR 4.56

TRI-TERT-BUTYLBORINE-DIMETHYLAMINE
  CA 13% 230ORGAN.UNKNOWNEST D 0.7800 MD1368.0 04444444 T -0.
  C 14 M 34 B 1 M 1
  Mn 227.25 M 1 47.38 MA 0.0980 MD 7.03 EM 27.63 GR 5.72

TRI-TERT-BUTYLBORINE-ETHYLAMINE
  CA 13% 230ORGAN.UNKNOWNEST D 0.7800 MD1369.0 04444444 T -0.
  C 14 M 34 B 1 M 1
  Mn 227.25 M 1 47.38 MA 0.0980 MD 7.03 EM 27.63 GR 5.72

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BUTYL CYCLOHEXYLBORONATE
CA 53. 9149ZORGAN.UKXNKWST D 0.8700 ND1362.0 04444444 T -0.
C 14 H 29 B 1 O 2
MW 240.21 MI 43.29 MA 0.0944 MD 6.33 EM 22.90 GR 5.00

2,3-DIMETHYL-2,3-BUTANEDIOL OCTYLBORONATE,CYCLOC DIESTER
CA 52.1056ZORGAN.UKXNKWST D 0.8700 ND1363.0 04444444 T -0.
C 18 H 38 B 1 O 2
MW 240.21 MI 43.29 MA 0.0944 MD 6.33 EM 22.90 GR 5.00

2,5-HEXANEDIOL OCTYLBORONATE,CYCLOC ESTER
CA 52.1056ZORGAN.UKXNKWST D 0.8700 ND1364.0 04444444 T -0.
C 14 H 29 B 1 O 2
MW 240.21 MI 43.29 MA 0.0944 MD 6.33 EM 22.90 GR 5.00

1,9-DIBUTYL-1,9-DIBOROCYCLOOCTANE
CA 54. 1261ZORGAN.LLIUQIKND D 0.8800 ND 308.0 04114441 T -0.
C 14 H 30 B 2 O 2
MW 292.03 MI 45.26 MA 0.0952 MD 6.31 EM 25.03 GR 9.26

BUTOKYCLOHEXYLBORONATE(DIETHYLAHINODIBORINE
CA 53.1612ZORGAN.LLIUQIKND D 0.8750 ND 480.0 04444444 T -0.
C 14 H 30 B 1 M 1 O 1
MW 236.22 MI 44.37 MA 0.0978 MU 6.61 EM 24.71 GR 5.44

DIHEPTYLPHOSPHINE-BORANE
CA 54.1521ZORGAN.UKXNKWST D 0.8355 ND3577.0 04444444 T -0.
C 14 H 31 B 1 P 1
MW 240.19 MI 43.64 MA 0.0914 MD 6.29 EM 25.46 GR 5.33

TERT-BUTYLDIPENTYLBORONINE
CA 53. 608ZORGAN.LLIUQIKND D 0.7585 ND 472.0 04444444 T -0.
C 14 H 31 B 1
MW 210.22 MI 43.31 MA 0.0941 MD 6.74 EM 24.37 GR 5.30

SEC-OCTYL DIISOBOROPYLBORONATE
CA 56.2436ZORGAN.LLIUQIKND D 0.7833 ND3578.0 04444444 T -0.
C 14 H 31 B 1 O 1
MW 226.22 MI 44.30 MA 0.0924 MU 6.47 EM 24.37 GR 5.08

DIHEXYL ETHYLBORONATE
CA 52. 823ZORGAN.LLIUQIKND D 0.8300 ND 495.0 04444444 T -0.
C 14 H 31 B 1 O 1
MW 242.22 MI 45.29 MA 0.0935 MD 6.40 EM 24.37 GR 5.03

1-TETRADECANEBORONIC ACID
CA 52. 925ZORGAN.UKXNKWST D 0.8300 ND1369.0 04444441 T -0.
C 14 H 31 B 1 O 2
MW 242.22 MI 43.29 MA 0.0935 MD 6.40 EM 24.37 GR 5.03

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BIS[TRIMETHYLPHOSPHONIUM]DICHLOROMETHYLENEBORONINE  
 CA 50.26400UG/6M UNKNOWCAL D 1.1111 NO3582.0 04444444 T -0.  
 C 14 H 6 B 2 CL 4 P 2  
 MW 477.04 M1 54.76 MA 0.0856 MU 3.32 EM 809.35 GR 126.61  
  
 TETRAKIS(METHYLETHYLPHOSPHINO)BORONINE  
 AD142. 0208ORGAN. SOLIDCAL D 1.0907 NO4229.0 04444444 T -0.  
 C 14 H 60 B 8 P 4  
 MW 423.30 M1 68.04 MA 0.1068 MU 7.14 EM 90.03 GR 7.77  
  
 1/2 COPOLYMER OF DIMETHYLPHOSPHINOUBORINE/1,3-TRIMETHYLENE-P-PIPERINE  
 1-BIS(METHYLPHOSPHINO)BORONINE  
 AD151. 1820ORGAN. SOLIDCAL D 1.3502 NO4249.0 04000410 T -0.  
 C 14 H 44 B 4 P 2  
 MW 425.52 M1 71.34 MA 0.1370 MU 9.36 EM 92.26 GR 4.96  
  
 1,2-DICHLORODIBORYLETHANE-HEXANISIN(4-N-DIMETHYLHYDROXIDE)  
 PB 1.2293ORGAN. SOLIDCAL D 1.0310 NO3583.0 04444444 T -0.  
 C 14 H 52 B 2 CL 4 N 12  
 MW 552.13 M1 82.92 MA 0.0933 MU 3.24 EM 811.90 GA 93.57  
  
 BORON TRIFLUORIDE-ALPHA-FURMYL-PARA-PARA PRIME DICHLORODEOXYBENZONIN  
 CA 50.1471ORGAN. SOLIDCAL D 1.4115 NO3585.0 04444444 T 210.20  
 C 15 H 10 B 2 CL 2 F 3 O 2  
 MW 300.96 M1 31.37 MA 0.0732 MU 2.36 EM 398.09 GR 93.76  
  
 IN[15(5-TRIFLUORO-2,3,4-DIFLUOROMETHYL)CARATE  
 CA 55. 3631ORGAN. UNKNOWCAL D 1.4704 NO3584.0 04444444 T -0.  
 C 15 H 6 B 1 F 27 D 3  
 MW 739.03 M1 56.92 MA 0.0665 MU 0.70 EM 8.04 GR 0.94  
  
 10-HYDROXY-9-PHENANTHRENECARBOALDEHYDE BORON COMPLEX  
 CA 53. 8088ORGAN. SOLIDCAL D 1.2408 NO3980.0 04444444 T 270.50  
 C 15 H 11 B 1 O 4  
 MW 266.07 M1 28.08 MA 0.0789 MU 3.09 EM 9.71 GR 2.73  
  
 2-ACETAMIDINOFLUORENE-9-DIAZONIUM FLUOBORATE  
 CA 53.1312ORGAN. UNKNOWCAL D 1.1685 NO3587.0 04444444 T -0.  
 C 15 H 12 B 1 F 4 N 3 O 1  
 MW 337.10 M1 36.48 MA 0.0720 MU 2.51 EM 13.98 GR 2.92  
  
 1,3-DIMYDOKO-2-IGAMA-QUINOLINYL-1-(2H)-1,3,2-HEX701 04444444 T 188.90  
 CA 53.16105ORGAN. SOLIDSET D 1.0400 NO1370.0 04444444 T 188.90  
 C 15 H 12 B 1 N 3  
 MW 245.10 M1 28.33 MA 0.0724 MU 3.07 EM 13.60 GR 3.50  
  
 2-PHENYL-1,3,2-IG-15-INDANO[10A]BOROLE  
 CA 49.11605ORGAN. SOLIDSET D 1.1100 NO1371.0 04444444 T 108.00  
 C 15 H 13 B 1 O 2  
 MW 236.09 M1 28.10 MA 0.0796 MU 3.68 EM 11.18 GR 3.17

A 253

BORON-1,3-DIPHENYL-1,3-PROPANEDIOLATE-DIFLUORIDE  
 CA 50.14770ORGAN. SOLIDEST D 1.0000 NO3588.0 04444444 T -0.  
 C 15 H 18 B 1 F 2 O 2  
 MW 275.10 MI 31.68 MA 0.0764 MD 3.37 EM 12.06 GR 2.91

PHENYL 12,6-DIMETHYLPHENYLINITRILUM TETRAFLUOROBORATE  
 CA 50.14770ORGAN. SOLIDEST D 1.0000 NO3588.0 04444444 T 158.00  
 C 15 H 14 B 1 F 4 N 1  
 MW 295.10 MI 33.35 MA 0.0748 MD 3.14 EM 13.28 GR 2.98

1-NAPHTHYLHYDROXY-PYRIDINE  
 CA 50.42700ORGAN. SOLIDEST D 1.0000 NO1372.0 04444444 T 140.50  
 C 15 H 14 N 1  
 MW 219.10 MI 28.19 MA 0.0852 MD 4.23 EM 12.94 GR 3.93

BORON TRIFLUORIDE-1-DIMETHYLTOLYLICARBYLAMINE  
 YACN 372190ORGAN. SOLIDEST D 1.5000 NO1373.0 04444444 T -0.  
 C 15 H 15 B 1 F 3 N 1  
 MW 277.11 MI 33.06 MA 0.1078 MD 4.89 EM 13.94 GR 4.55

BORON TRIFLUORIDE-1-DIPANATOLYLICARBYLAMINE  
 YACN 372190ORGAN. SOLIDEST D 1.5000 NO1374.0 04444444 T -0.  
 C 15 H 15 B 1 F 3 N 1  
 MW 277.11 MI 33.06 MA 0.1078 MD 4.89 EM 13.94 GR 4.55

PRIME-HIS(PARATOLYLFLUORANAMIDINE)-MONOFLUORIDE  
 CA 50.11330ORGAN. SOLIDEST D 1.0000 NO3599.0 04444444 T 173.00  
 C 15 H 16 B 1 F 3 N 2  
 MW 292.13 MI 35.13 MA 0.0728 MD 3.31 EM 15.76 GR 3.26

3-AMINOETHYL-1-TRIPYCH-6-ORAZOLIDINE  
 CA 50.24682ORGAN. SOLIDEST D 1.1286 NO3590.0 04444444 T 261.50  
 C 15 H 17 B 1 N 2 O 5  
 MW 316.14 MI 37.21 MA 0.0800 MD 3.66 EM 16.28 GR 3.50

4-PHOSPHORYLPHENYLORANE  
 CA 51.95130ORGAN. LIQUIDAND D 0.9870 MD 310.0 04444444 T -0.  
 C 15 H 17 B 1 O 1  
 MW 274.12 MI 31.11 MA 0.0825 MD 4.51 EM 14.11 GR 3.74

PIA-BIPHENYL-TRIMETHYLAMMONIUM TETRAFLUOROBORATE  
 CA 50.39030ORGAN. UNKNOWCAL D 1.0000 NO3591.0 04444444 T -0.  
 C 15 H 18 B 1 F 4 N 1  
 MW 299.14 MI 37.35 MA 0.0825 MD 3.98 EM 16.22 GR 3.58

PIA-BIPHENYL-TRIMETHYLAMMONIUM TETRAFLUOROBORATE  
 CA 50.39030ORGAN. UNKNOWCAL D 1.0000 NO3592.0 04444444 T -0.  
 C 15 H 18 B 1 F 4 N 1  
 MW 299.14 MI 37.35 MA 0.0825 MD 3.98 EM 16.22 GR 3.58

A 255

1-(2-ETHOXY-4,4-DIMETHYL-6-URD-1-CYCLOHEXEN-1-YL)PYRIDINIUM TETRAFLUOROBORATE  
 CA 50.10970ORGAN. SOLIDEST D 1.0000 NO3595.0 04444444 T 121.00  
 C 15 H 20 F 4 N 1 O 2  
 MW 322.13 MI 40.16 MA 0.0789 MD 3.91 EM 16.30 GR 3.14

PHENYL DIPHENYLBORONATE-AMMONIA  
 CA 52.17140ORGAN. SOLIDEST D 0.4900 NO1382.0 04444444 T 105.50  
 C 15 H 20 B 1 N 1 O 1  
 MW 318.13 MI 43.91 MA 0.0773 MD 3.52 EM 29.92 GR 5.27

TRIS(1,2-CHLORO-1,1,2-TRIFLUOROETHOXY)PROPYLBORINE  
 CA 50.16230ORGAN. LIQUIDAND D 1.1738 NO 505.0 04444444 T -0.  
 C 15 H 21 B 1 CL 3 F 9 O 3  
 MW 537.52 MI 52.30 MA 0.0805 MD 3.23 EM 601.05 GR 42.53

1-AMINOETHYL-TRIPYCH-6-ORAZOLIDINE  
 CA 50.24682ORGAN. SOLIDEST D 1.0000 NO3596.0 04444444 T 64.00  
 C 15 H 21 B 1 N 2 O 5  
 MW 320.17 MI 41.21 MA 0.0783 MD 3.99 EM 19.21 GR 3.65

3-LANDBEN-7-LUOXANIDONE-1-TRIPYCH-6-ORAZOLIDINE  
 CA 50.24682ORGAN. SOLIDEST D 1.0000 NO404.0 04444444 T 141.50  
 C 15 H 21 B 1 N 2 O 5  
 MW 320.17 MI 41.21 MA 0.0783 MD 3.99 EM 19.21 GR 3.65

1,5-BORANE-TRIS FURFURAL  
 CA 50.71560ORGAN. UNKNOWEST D 1.1500 NO183.0 04444444 T 0.50  
 C 15 H 21 B 1 O 5  
 MW 329.19 MI 42.00 MA 0.0882 MD 4.41 EM 19.84 GR 4.17

1,2,2-TRIFLUOROETHYL DIBUTYLBORONATE-PYRIDINE  
 CA 52.00030ORGAN. UNKNOWCAL D 0.9832 NO3577.0 04444444 T -0.  
 C 15 H 25 B 1 F 3 N 1 O 1  
 MW 303.14 MI 44.05 MA 0.0880 MD 4.88 EM 21.28 GR 4.16

1-ETHYL-1-ETHYLBENZYLIMIDYL-1-PHOSPHONIC FLUOROBORATE  
 CA 52.18280ORGAN. SOLIDEST D 1.0000 NO3598.0 04444444 T 55.00  
 C 15 H 25 B 1 F 4 N 1 P 1  
 MW 327.15 MI 45.00 MA 0.0800 MD 4.70 EM 23.18 GR 4.36

DIETHYLCYANOBORINE-PHENYLAMINE  
 CA 50.12670ORGAN. SOLIDEST D 0.4500 NO184.0 04444444 T 111.50  
 C 15 H 25 B 1 N 2  
 MW 246.20 MI 40.26 MA 0.0943 MD 3.86 EM 22.14 GR 5.13

DIETHYLCYANOBORINE-PHENYLAMINE  
 CA 50.12670ORGAN. SOLIDEST D 0.4500 NO185.0 04444444 T 90.50  
 C 15 H 25 B 1 N 2  
 MW 246.20 MI 40.26 MA 0.0943 MD 3.86 EM 22.14 GR 5.13

A 254

2-AMINOTHYL BENZYLPHENYLBORONATE  
 CA 53.17144ORGAN. SOLIDEST D 1.0500 NO1375.0 04444444 T 164.00  
 C 15 H 18 B 1 N 1 O 1  
 MW 239.14 MI 33.18 MA 0.0878 MD 4.76 EM 15.92 GR 4.21

2-METHYLAMINOTHYL DIPHENYLBORONATE  
 CA 53.17144ORGAN. SOLIDEST D 1.0500 NO1376.0 04444444 T -0.  
 C 15 H 18 B 1 N 1 O 1  
 MW 239.14 MI 33.18 MA 0.0878 MD 4.76 EM 15.92 GR 4.21

3-AMINOPROPYL DIPHENYLBORONATE  
 CA 53.17144ORGAN. SOLIDEST D 1.0500 NO1377.0 04444444 T -0.  
 C 15 H 18 B 1 N 1 O 1  
 MW 239.14 MI 33.18 MA 0.0878 MD 4.76 EM 15.92 GR 4.21

2-AMINO-2-METHYLSYNYL DIPHENYLBORONATE  
 CA 53.17144ORGAN. SOLIDEST D 1.0500 NO1378.0 04444444 T -0.  
 C 15 H 18 B 1 N 1 O 1  
 MW 239.14 MI 33.18 MA 0.0878 MD 4.76 EM 15.92 GR 4.21

2-AMINOETHYL PHENYL-PARA-TOLYLBORONATE  
 CA 50.10970ORGAN. SOLIDEST D 1.0500 NO1379.0 04444444 T 164.00  
 C 15 H 18 B 1 N 1 O 1  
 MW 239.14 MI 33.18 MA 0.0878 MD 4.76 EM 15.92 GR 4.21

TETRAHYDRO-2-(1-NAPHTHALENE-1-THYL)-1,3,6,2-DIOXAZARONUCINE  
 CA 51.65320ORGAN. SOLIDEST D 1.0000 NO1380.0 04444444 T 197.00  
 C 15 H 18 B 1 N 1 O 2  
 MW 259.14 MI 34.17 MA 0.0887 MD 4.67 EM 15.93 GR 4.14

TETRAHYDRO-2-(12-NAPHTHALENE-1-THYL)-1,3,6,2-DIOXAZARONUCINE  
 CA 51.65320ORGAN. SOLIDEST D 1.0000 NO1381.0 04444444 T 230.00  
 C 15 H 18 B 1 N 1 O 2  
 MW 259.14 MI 34.17 MA 0.0887 MD 4.67 EM 15.93 GR 4.14

BUTYL ORTHOPHENYLENE BORATE-PYRIDINE  
 CA 53.21900ORGAN. SOLIDEST D 1.0595 NO3593.0 04444444 T 162.50  
 C 15 H 18 B 1 N 1 O 1  
 MW 271.14 MI 35.16 MA 0.0828 MD 4.24 EM 15.93 GR 3.74

DIANILINOPROPYLBORINE  
 CA 52.19910ORGAN. LIQUIDAND D 1.0187 NO 839.0 04444444 T -0.  
 C 15 H 14 B 1 N 2  
 MW 235.15 MI 34.26 MA 0.0883 MD 4.90 EM 17.74 GR 4.57

PHTHALIC ANHYDRIDE AND 3-AMINOETHYL-TRIPYCH-6-ORAZOLIDINE  
 CA 50.24682ORGAN. SOLIDEST D 1.0818 NO3594.0 04444444 T 147.00  
 C 15 H 19 B 1 N 2 O 6  
 MW 334.15 MI 40.20 MA 0.0784 MD 3.71 EM 17.74 GR 3.46

A 256

BENZYL DIBUTYLBORONATE  
 CA 50.24682ORGAN. LIQUIDAND D 0.6871 NO3600.0 04444444 T -0.  
 C 15 H 25 B 1 O 1  
 MW 232.18 MI 34.11 MA 0.0900 MD 5.75 EM 19.98 GR 4.80

DIBUTYL-O-TOLYLBORANE  
 CA 49.102130ORGAN. LIQUIDAND D 0.9099 MD 311.0 04444444 T -0.  
 C 15 H 25 B 1 O 2  
 MW 248.18 MI 40.10 MA 0.0888 MD 5.52 EM 19.98 GR 4.43

DIBUTYL-M-TOLYLBORANE  
 CA 49.102130ORGAN. LIQUIDAND D 0.9126 MD 312.0 04444444 T -0.  
 C 15 H 25 B 1 O 2  
 MW 248.18 MI 40.10 MA 0.0888 MD 5.52 EM 19.98 GR 4.43

DIBUTYL PARA-TOLYLBORONATE  
 CA 52.49320ORGAN. LIQUIDAND D 0.9106 MD 310.0 04444444 T -0.  
 C 15 H 25 B 1 O 2  
 MW 248.18 MI 40.10 MA 0.0888 MD 5.52 EM 19.98 GR 4.42

DIBUTYL-P-TOLYLBORANE  
 CA 49.102130ORGAN. LIQUIDAND D 0.9127 MD 313.0 04444444 T -0.  
 C 15 H 25 B 1 O 2  
 MW 248.18 MI 40.10 MA 0.0888 MD 5.52 EM 19.98 GR 4.43

DIBUTYLOXY-ORTHO-TOLYLBORANE  
 CA 50.11960ORGAN. UNKNOWEST D 0.9100 NO1386.0 04444444 T -0.  
 C 15 H 25 B 1 O 2  
 MW 248.18 MI 40.10 MA 0.0888 MD 5.52 EM 19.98 GR 4.41

DIBUTYL PARATOLYLBORONATE  
 CA 53.42710ORGAN. LIQUIDEST D 0.9100 NO1387.0 04444444 T -0.  
 C 15 H 25 B 1 O 2  
 MW 248.18 MI 40.10 MA 0.0888 MD 5.52 EM 19.98 GR 4.41

DIBUTYLYL PARATOLYLBORONATE  
 CA 50.88640ORGAN. LIQUIDEST D 0.9100 NO1388.0 04444444 T -0.  
 C 15 H 25 B 1 O 2  
 MW 248.18 MI 40.10 MA 0.0888 MD 5.52 EM 19.98 GR 4.41

DIBUTYL-ORTHO-TOLYLBORONATE  
 CA 53.41400ORGAN. LIQUIDEST D 0.9100 NO1389.0 04444444 T -0.  
 C 15 H 25 B 1 O 2  
 MW 248.18 MI 40.10 MA 0.0888 MD 5.52 EM 19.98 GR 4.41

DIBUTYLYL ORTHOTOLYLBORONATE  
 CA 53.41400ORGAN. UNKNOWEST D 0.9100 NO1390.0 04444444 T -0.  
 C 15 H 25 B 1 O 2  
 MW 248.18 MI 40.10 MA 0.0888 MD 5.52 EM 19.98 GR 4.41



A 257

DISOBTYL PARABENETHOXYPHENYL BORONATE  
CA 93.17940ORGAN. SOLIDEST D 0.9800 NO1391.0 04444444 T 230.50  
C 15 H 25 B 1 D 3  
MW 266.18 MI 41.09 MA 0.0918 HD 5.59 EM 19.98 GR 4.47

TRIPTYCH-BORONAZOLIDINE  
CA 94.24610ORGAN. SOLIDICAL D 1.0274 NO3599.0 04444444 T -0.  
C 15 H 25 N 1 D 8  
MW 347.37 MI 46.14 MA 0.0822 HD 4.45 EM 19.68 GR 3.51

DIETHYLAMINO-1-SUBUTOXY-O-TOLYL-BORINE  
CA 91.19440ORGAN. LIQUIDKNO D 0.8677 NO 314.0 04444444 T -0.  
C 15 H 26 B 1 N 1 D 12  
MW 247.20 MI 41.18 MA 0.0891 HD 5.62 EM 21.79 GR 4.71

TRIMETHYL-1-ACENAPHTHENYLAMMONIUM PENTABORATE-2-WATER  
CA 94.20690ORGAN. SOLIDICAL D 1.1629 NO3601.0 04444444 T -0.  
C 15 H 26 B 3 N 1 D 12  
MW 466.48 MI 55.95 MA 0.0840 HD 3.90 EM 27.38 GR 4.11

TRICYCLOPENTYLBORINE  
CA 94.85810ORGAN. LIQUIDEST D 0.9000 NO1392.0 04444444 T -0.  
C 15 H 27 B 1  
MW 218.20 MI 40.12 MA 0.0997 HD 6.71 EM 21.45 GR 5.33

TRI-1-PENTENYLBORINE  
CA 94.85800ORGAN. UNKNOWEST D 0.8600 NO1393.0 04444444 T -0.  
C 15 H 27 B 1  
MW 218.20 MI 40.12 MA 0.0982 HD 6.41 EM 21.45 GR 5.09

TRI-1-PENTENYLBORANE  
CA 94.14910ORGAN. LIQUIDEST D 0.8600 NO1394.0 04444444 T -0.  
C 15 H 27 B 1  
MW 218.20 MI 40.12 MA 0.0982 HD 6.41 EM 21.45 GR 5.09

ALLYLOXYCYCLOHEXYLOXYBORANE  
CA 94.14910ORGAN. LIQUIDEST D 0.9100 NO1395.0 04444444 T -0.  
C 15 H 27 B 1 D 2  
MW 230.20 MI 42.10 MA 0.0982 HD 5.92 EM 21.45 GR 4.70

TRIS(1-ETHOXY)PROP-1-EN-1-YLBORINE  
CA 94.15210ORGAN. LIQUIDEST D 0.9200 NO1853.0 04444444 T -0.  
C 15 H 27 B 1 O 3  
MW 266.20 MI 43.09 MA 0.0897 HD 5.62 EM 21.45 GR 4.47

TRI-1-ETHANHYDROFURONYLBORANE  
CA 94.36070ORGAN. LIQUIDICAL D 0.9516 NO3602.0 04444444 T -0.  
C 15 H 27 B 1 O 6  
MW 316.20 MI 46.06 MA 0.0846 HD 4.96 EM 21.46 GR 3.94

A 259

5-CHLOROPENTYL BORATE  
CA 91.94760ORGAN. LIQUIDKNO D 1.0900 NO 317.0 04444444 T -0.  
C 15 H 30 B 1 CL 3 D 3  
MW 379.60 MI 49.69 MA 0.0869 HD 5.24 EM 26.94 GR 106.10

2,2-PRIME-11,3-DIMETHYLTRIMETHYLENEOXYTRIS(4,6-DIMETHYL-1,3,2-DIOXABORINANE)  
CA 91.10393ORGAN. LIQUIDKNO D 0.9820 NO 318.0 04444444 T -0.  
C 15 H 30 B 1 O 3  
MW 269.22 MI 46.09 MA 0.1013 HD 6.39 EM 23.65 GR 5.20

TRI-B-ALLYLTRI-N-ETHYLBORAZOLE  
CA 94.44280ORGAN. UNKNOWICAL D 0.8395 NO3606.0 04444444 T -0.  
C 15 H 30 B 3 N 3  
MW 284.89 MI 48.27 MA 0.0897 HD 5.92 EM 29.67 GR 5.27

3-SUBSTITUTED-TRIPTYCH-BORONAZOLIDINE  
CA 94.24610ORGAN. SOLIDICAL D 0.8346 NO3607.0 04444444 T 133.50  
C 15 H 31 B 1 N 2 O 3  
MW 298.25 MI 49.23 MA 0.0830 HD 5.22 EM 26.95 GR 4.47

2,2-DIETHYL-1,3-PROPANEDIOL OCTYLBORONATE, CYCLIC ESTER  
CA 92.10980ORGAN. UNKNOWEST D 0.8800 NO1399.0 04444444 T -0.  
C 15 H 31 B 1 O 2  
MW 296.23 MI 46.10 MA 0.0961 HD 6.46 EM 24.39 GR 5.08

MURIC ACID CINNANYLTRIETHYLAMMONIUM HEXABORATE  
CA 94.20690ORGAN. UNKNOWICAL D 1.0418 NO3608.0 04444444 T -0.  
C 15 H 31 B 6 N 1 D 13  
MW 498.34 MI 62.91 MA 0.0890 HD 4.09 EM 32.44 GR 4.28

TRISOPENTYLBORINE  
CA 94.85800ORGAN. LIQUIDKNO D 0.7600 NO 319.0 04444444 T -0.  
C 15 H 33 B 1  
MW 224.25 MI 46.12 MA 0.0941 HD 6.74 EM 25.85 GR 5.28

TRIPENTYLBORINE  
CA 94.85800ORGAN. LIQUIDEST D 0.7600 NO1400.0 04444444 T -0.  
C 15 H 33 B 1  
MW 224.25 MI 46.12 MA 0.0941 HD 6.74 EM 25.85 GR 5.28

TRIS(1-METHYLBUTYL)BORINE  
CA 94.85800ORGAN. LIQUIDEST D 0.7600 NO1401.0 04444444 T -0.  
C 15 H 33 B 1  
MW 224.25 MI 46.12 MA 0.0941 HD 6.74 EM 25.85 GR 5.28

DIHEXYL PROPYLBORONATE  
CA 92.62370ORGAN. LIQUIDKNO D 0.8263 NO 497.0 04444444 T -0.  
C 15 H 33 B 1 O 2  
MW 256.25 MI 48.10 MA 0.0937 HD 6.43 EM 25.85 GR 5.03

A 258

TRIS(2-CARBOMETHOXY)PROPYLBORANE  
CA 94.18930ORGAN. LIQUIDICAL D 0.9586 NO3603.0 04444444 T -0.  
C 15 H 27 B 1 O 6  
MW 314.20 MI 48.06 MA 0.0846 HD 4.96 EM 21.46 GR 3.94

1-CARBOMETHOXYETHYL BORATE  
CA 94.13880ORGAN. LIQUIDKNO D 1.0790 NO 315.0 04444444 T -0.  
C 15 H 27 B 1 O 4  
MW 362.20 MI 49.03 MA 0.0880 HD 4.84 EM 21.46 GR 3.85

2-CARBOMETHOXYETHYL BORATE  
CA 94.13880ORGAN. LIQUIDKNO D 1.1080 NO 316.0 04444444 T -0.  
C 15 H 27 B 1 O 4  
MW 362.20 MI 49.03 MA 0.0903 HD 4.98 EM 21.46 GR 3.95

ETHYL HYDROACRYLATE BORATE  
CA 93.97820ORGAN. UNKNOWEST D 1.1200 NO1396.0 04444444 T -0.  
C 15 H 27 B 1 O 4  
MW 362.20 MI 49.03 MA 0.0913 HD 5.03 EM 21.46 GR 4.00

ETHYL LACTATE BORATE  
CA 93.97820ORGAN. UNKNOWEST D 1.1400 NO1397.0 04444444 T -0.  
C 15 H 27 B 1 O 4  
MW 362.20 MI 49.03 MA 0.0930 HD 5.12 EM 21.46 GR 4.07

METHYL 2-METHYLLACTATE BORATE  
CA 93.97820ORGAN. UNKNOWEST D 1.1400 NO1398.0 04444444 T -0.  
C 15 H 27 B 1 O 4  
MW 362.20 MI 49.03 MA 0.0930 HD 5.12 EM 21.46 GR 4.07

TRIMETHYLPHOSPHENODICYANOBORINE TRIMER  
AD142.0720ORGAN. UNKNOWICAL D 1.0956 NO4230.0 04444444 T -0.  
C 15 H 27 B 3 N 6 P 3  
MW 416.81 MI 82.47 MA 0.0831 HD 4.27 EM 36.17 GR 5.73

TRIPROPYLBORON-PHENYLHYDRAZINE  
CA 94.20930ORGAN. SOLIDICAL D 0.7951 NO3604.0 04444444 T 60.00  
C 15 H 29 B 1 N 2  
MW 248.23 MI 46.26 MA 0.0854 HD 5.60 EM 25.07 GR 4.84

DECABORANE-PYRIDINE  
CA 94.11500ORGAN. UNKNOWICAL D 1.0144 NO3605.0 04444444 T -0.  
C 15 H 29 B 10 N 3  
MW 359.62 MI 54.06 MA 0.0919 HD 4.93 EM 36.88 GR 6.57

TRICYCLOPENTYLBORANE  
CA 94.85810ORGAN. UNKNOWEST D 0.9000 NO1854.0 04444444 T -0.  
C 15 H 29 B 1  
MW 221.22 MI 43.12 MA 0.1037 HD 7.35 EM 23.65 GR 5.80

A 260

DIHEXYL ISOPROPYLBORONATE  
CA 92.62370ORGAN. LIQUIDKNO D 0.8258 NO 498.0 04444444 T -0.  
C 15 H 33 B 1 O 2  
MW 256.25 MI 48.10 MA 0.0934 HD 6.47 EM 25.85 GR 5.02

1-ETHYLPROPYL BORATE  
CA 94.13880ORGAN. LIQUIDKNO D 0.8530 NO 311.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 MA 0.0926 HD 6.23 EM 25.86 GR 4.88

TRI(4-METHOXY)BUTYLBORANE  
CA 94.14910ORGAN. LIQUIDEST D 0.8500 NO1402.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 MA 0.0923 HD 6.21 EM 25.86 GR 4.86

PENT-3-YL BORATE  
CA 92.33260ORGAN. LIQUIDEST D 0.8500 NO1403.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 MA 0.0923 HD 6.21 EM 25.86 GR 4.86

ISOAMYL BORATE  
CA 92.27410ORGAN. UNKNOWEST D 0.8500 NO1404.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 MA 0.0923 HD 6.21 EM 25.86 GR 4.86

TERTAMYL BORATE  
CA 92.27410ORGAN. UNKNOWEST D 0.8500 NO1405.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 MA 0.0923 HD 6.21 EM 25.86 GR 4.86

NEOPENTYL BORATE  
CA 94.77160ORGAN. SOLIDEST D 0.8500 NO1406.0 04444444 T 38.25  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 MA 0.0923 HD 6.21 EM 25.86 GR 4.86

TRIANYL BORATE  
CA 94.40940ORGAN. LIQUIDKNO D 0.8537 NO 320.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 MA 0.0929 HD 6.25 EM 25.86 GR 4.89

ISOAMYL BORATE  
CA 94.13930ORGAN. LIQUIDKNO D 0.8504 NO 321.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 MA 0.0924 HD 6.21 EM 25.86 GR 4.86

1,1-DIMETHYLPROPYL BORATE  
CA 94.13880ORGAN. LIQUIDKNO D 0.8530 NO 322.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 MA 0.0926 HD 6.23 EM 25.86 GR 4.88

A 261

2-ETHYLPROPYL BORATE  
CA 54.13880ORGAN.LIQUIDKD D 0.8410 NO 324.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 NA 0.0913 HD 6.14 EM 25.86 GR 4.81

1,2-DIMETHYLPROPYL BORATE  
CA 54.17160ORGAN.LIQUIDKD D 0.8440 NO 323.0 04444444 T -0.  
C 15 H 33 B 1 O 3  
MW 272.25 MI 49.09 NA 0.0917 HD 6.16 EM 25.86 GR 4.83

2-(2-METHOXYETHOXY)ETHYL BORATE  
CA 54.66080ORGAN.UNKNOWEST D 1.1000 NO1407.0 04444444 T -0.  
C 15 H 33 B 1 O 4  
MW 368.25 MI 53.03 NA 0.0980 HD 5.94 EM 25.86 GR 4.65

TRIPENTYL THIOBORATE  
CA 54.14100ORGAN.LIQUIDAL D 0.9481 NO3609.0 04444444 T -0.  
C 15 H 33 B 1 S 3  
MW 320.43 MI 50.02 NA 0.0891 HD 5.88 EM 28.13 GR 5.01

TRIPENTYL BOROXIN  
CA 52.36700ORGAN.LIQUIDKD D 0.8675 NO 307.0 04444444 T -0.  
C 15 H 33 B 3 O 3  
MW 293.84 MI 51.03 NA 0.0907 HD 5.87 EM 28.84 GR 5.09

TRIANYLBOROXIN  
JACS 79.51700ORGAN.LIQUIDKD D 0.8675 NO 325.0 04444444 T -0.  
C 15 H 33 B 3 O 3  
MW 293.84 MI 51.03 NA 0.0907 HD 5.87 EM 28.84 GR 5.09

TRI-TERT-BUTYLBORINE-TRIMETHYLAMINE  
CA 13.23800ORGAN.UNKNOWEST D 0.7800 NO1408.0 04444444 T -0.  
C 15 H 36 B 1 N 1  
MW 261.28 MI 50.19 NA 0.0977 HD 7.01 EM 29.13 GR 5.67

TRIMETHYLAMINE TERT-BUTYLBORANE  
CA 54.14250ORGAN.UNKNOWEST D 0.7800 NO1855.0 04444444 T -0.  
C 15 H 36 B 1 N 1  
MW 261.28 MI 50.19 NA 0.0977 HD 7.01 EM 29.13 GR 5.67

TRIMETHOXYBORINE-TRIBUTYLAMINE  
CA 47.73570ORGAN.SOLIDAL D 0.7900 NO3610.0 04444444 T -0.  
C 15 H 36 B 1 N 1 O 3  
MW 289.28 MI 53.16 NA 0.0874 HD 5.92 EM 29.14 GR 4.79

TRIS(TRIMETHYLPHOSPHINE-DICHLOROBORINE)-TRIS(METHYLENE)  
CA 54.24400ORGAN.UNKNOWCAL D 1.0950 NO3611.0 04444444 T -0.  
C 15 H 36 B 2 CL 4 P 2  
MW 441.87 MI 57.55 NA 0.0859 HD 5.37 EM 810.87 GR 121.04

A 263

12-(TRIMETHYLSILYL)ETHYL BORINE  
CA 55.19850ORGAN.LIQUIDEST D 0.8200 NO1419.0 04444444 T -0.  
C 15 H 39 B 1 SI 3  
MW 314.57 MI 55.90 NA 0.0878 HD 6.12 EM 32.80 GR 5.12

TRIS(DIMETHYLSILYL)ETHYL BORINE  
CA 55.19550ORGAN.UNKNOWEST D 0.8200 NO1416.0 04444444 T -0.  
C 15 H 39 B 1 SI 3  
MW 314.57 MI 55.90 NA 0.0878 HD 6.12 EM 32.80 GR 5.12

HYDROBORATE OF TRIMETHYLVINYL SILANE  
CA 53.19850ORGAN.LIQUIDEST D 0.8700 NO1417.0 04444444 T -0.  
C 15 H 39 B 1 SI 3  
MW 314.57 MI 55.90 NA 0.0878 HD 6.12 EM 32.80 GR 5.12

2,4,6-TRIS(DIMETHYLAMINO)-1,3,5-TRIS-ISOPROPYL BORAZINE  
CA 52.98820ORGAN.LIQUIDEST D 0.9100 NO1418.0 04444444 T -0.  
C 15 H 39 B 3 N 6  
MW 339.98 MI 60.48 NA 0.1008 HD 6.30 EM 39.51 GR 6.59

N-TRIS-(TRIMETHYLSILYL)METHYL-N-TRIMETHYLBORAZINE  
AD230.70400ORGAN.SOLIDAL D 0.9111 NO4231.0 04444444 T 84.00  
C 15 H 42 B 3 N 6 SI 3  
MW 381.25 MI 64.05 NA 0.0922 HD 6.05 EM 40.82 GR 5.88

1-PHENEDIACONIU FLUOBORATE  
CA 52.118020ORGAN.UNKNOWCAL D 1.3534 NO3613.0 04444444 T -0.  
C 16 H 9 B 1 F 4 N 2  
MW 316.08 MI 30.23 NA 0.0780 HD 2.32 EM 10.71 GR 2.76

CHLORO-1-NAPHTHYLPHENYL BORINE  
CA 54.10460ORGAN.SOLIDEST D 1.0900 NO1419.0 04444444 T 88.50  
C 16 H 12 B 1 CL 1  
MW 250.55 MI 27.13 NA 0.0711 HD 3.14 EM 204.90 GR 53.69

TETRA(2-THIENYL)BOROPOTASSIUM  
CA 52.26610ORGAN.UNKNOWCAL D 1.5410 NO3614.0 04444444 T -0.  
C 16 H 12 B 1 K 1 S 4  
MW 382.43 MI 32.67 NA 0.0793 HD 2.91 EM 35.73 GR 8.68

1,3-DIMETHO-2-(1-NAPHTHYL-1-(2H)-1,3,2-BENZODIAZABOROLE  
CA 53.91980ORGAN.SOLIDEST D 1.1100 NO1420.0 04444444 T 149.50  
C 16 H 13 B 1 N 2  
MW 244.12 MI 29.07 NA 0.0796 HD 3.56 EM 13.35 GR 3.66

2-PHENYLNAPHTHOL-2,3-DI-1,3,2-DIAZABOROLINE  
CA 54.10530ORGAN.SOLIDEST D 1.1800 NO1421.0 04444444 T 327.50  
C 16 H 13 B 1 N 2  
MW 244.12 MI 29.07 NA 0.0832 HD 3.72 EM 13.35 GR 3.82

A 262

2,4,6-TRISOPENTHYLBORAZINE  
CA 53.12090ORGAN.LIQUIDKD D 0.8485 NO 477.0 04444444 T -0.  
C 15 H 36 B 3 N  
MW 290.94 MI 54.27 NA 0.0953 HD 6.32 EM 34.07 GR 5.99

2,4,6-TRIBUTYL-1,3,5-TRIMETHYLBORAZINE  
CA 53.32400ORGAN.LIQUIDEST D 0.8500 NO1409.0 04444444 T 18.00  
C 15 H 36 B 3 N 3  
MW 290.94 MI 54.27 NA 0.0955 HD 6.34 EM 34.07 GR 6.00

2,3,6-TRIMETHYL-2,4,6-TRIBUTYLBORAZINE  
PB 1.21710ORGAN.SOLIDEST D 0.8500 NO1410.0 04444444 T 100.00  
C 15 H 36 B 3 N 3  
MW 290.94 MI 54.27 NA 0.0955 HD 6.34 EM 34.07 GR 6.00

2,4,6-TRI-TERT-BUTOXY-1,3,5-TRIMETHYLBORAZINE  
CA 54.26300ORGAN.SOLIDEST D 0.9400 NO1411.0 04444444 T 85.50  
C 15 H 36 B 3 N 3 O 3  
MW 338.94 MI 57.24 NA 0.0956 HD 6.01 EM 34.08 GR 5.69

2,4,6-TRIBUTOXY-1,3,5-TRIMETHYLBORAZINE  
CA 54.26300ORGAN.SOLIDEST D 0.9400 NO1412.0 04444444 T -0.  
C 15 H 36 B 3 N 3 O 3  
MW 338.94 MI 57.24 NA 0.0956 HD 6.01 EM 34.08 GR 5.69

TRIMERIC-1-PHOSPHORINAMYL BORINE  
CA 53.18060ORGAN.UNKNOWCAL D 0.9395 NO3612.0 04444444 T -0.  
C 15 H 36 B 3 P 3  
MW 341.84 MI 55.05 NA 0.0911 HD 5.96 EM 36.30 GR 6.01

CYCLOCOPOLYMER WITH METHYLENEPHOSPHINOBORINES  
CA 54.15400ORGAN.POLYMERICAL D 1.2041 NO1430.0 04444444 T -0.  
C 15 H 36 B 3 P 3  
MW 341.84 MI 55.05 NA 0.1168 HD 7.64 EM 36.30 GR 7.70

DITRIMETHYLSILYL BORATE  
CA 52.36700ORGAN.LIQUIDKD D 0.8751 NO 486.0 04444444 T -0.  
C 15 H 39 B 1 O 3 SI 3  
MW 362.57 MI 58.87 NA 0.0856 HD 5.67 EM 32.60 GR 4.74

TRIS(DIETHYLMETHYLSILYL)ORTHOBORATE  
CA 54.43400ORGAN.UNKNOWEST D 0.8800 NO1413.0 04444444 T -0.  
C 15 H 39 B 1 O 3 SI 3  
MW 362.57 MI 58.87 NA 0.0861 HD 5.70 EM 32.60 GR 4.77

11-(TRIMETHYLSILYL)ETHYL-11-BIS(2-(TRIMETHYLSILYL)ETHYL)BORINE  
CA 53.11160ORGAN.UNKNOWEST D 0.8200 NO1414.0 04444444 T -0.  
C 15 H 39 B 1 SI 3  
MW 314.57 MI 55.90 NA 0.0878 HD 6.12 EM 32.80 GR 5.12

A 264

1-NAPHTHYLPHENYL BORONIC ACID  
CA 54.10460ORGAN.SOLIDEST D 1.1000 NO1422.0 04444444 T 58.00  
C 16 H 13 B 1 O 1  
MW 232.10 MI 27.92 NA 0.0797 HD 3.71 EM 11.19 GR 3.19

BIS(ACETOXY)-CHLOROPHENYL BORONITRIDE  
CA 53.12030ORGAN.UNKNOWCAL D 1.2659 NO3615.0 04444444 T -0.  
C 16 H 14 B 2 CL 2 O 5  
MW 378.32 MI 35.25 NA 0.0724 HD 2.81 EM 402.22 GR 80.85

BIS(2,1-BURAZARD-2-NAPHTHYL)ETHER  
CA 54.46080ORGAN.SOLIDAL D 1.0964 NO3616.0 04444444 T 199.00  
C 16 H 14 B 2 N 2 O 5  
MW 271.94 MI 32.03 NA 0.0778 HD 3.40 EM 15.48 GR 3.76

2,3,6,7-BIS(OKINO-2-TOLYLENE)-1,3,5,7,2,6-DIOXADIAZADIBOROCINE  
CA 51.14980ORGAN.SOLIDAL D 1.1087 NO3617.0 04444444 T -0.  
C 16 H 14 B 2 N 2 O 2  
MW 287.94 MI 33.02 NA 0.0766 HD 3.25 EM 15.48 GR 3.59

13,6-DIACETOXY-2-ACETONAPHTHENE-1-OLY)-DIFLUOROBORANE  
CA 49.14200ORGAN.SOLIDAL D 1.1634 NO3618.0 04444444 T 284.00  
C 16 H 15 B 1 F 2 O 7  
MW 368.12 MI 38.44 NA 0.0719 HD 2.81 EM 12.82 GR 2.40

PHENYL(2,4,6-TRIMETHYLPHENYL)NITRILIUM TETRAFLUOROBORATE  
CA 50.14770ORGAN.SOLIDAL D 1.0563 NO3619.0 04444444 T 190.00  
C 16 H 16 B 1 F 4 N 1  
MW 309.13 MI 36.16 NA 0.0744 HD 3.29 EM 14.77 GR 3.04

BENZYL(2,5-DIMETHYLPHENYL)NITRILIUM TETRAFLUOROBORATE  
CA 50.14770ORGAN.SOLIDAL D 1.0563 NO3620.0 04444444 T 165.50  
C 16 H 16 B 1 F 4 N 1  
MW 309.13 MI 36.16 NA 0.0744 HD 3.29 EM 14.77 GR 3.04

POTASSIUM TETRA-1-PYRROLBORATE  
CA 50.11330ORGAN.SOLIDAL D 1.1018 NO3621.0 04444444 T -0.  
C 16 H 16 B 1 K 1 N 4  
MW 314.26 MI 35.75 NA 0.0755 HD 3.38 EM 39.97 GR 8.44

CALCIUM BORATE-TARTRATE-16-WATER  
CA 53.12900ORGAN.SOLIDKD D 1.6200 NO 482.0 04444444 T -0.  
C 16 H 48 B 2 CA 5 O 44  
MW 1166.60 MI 114.36 NA 0.0957 HD 4.01 EM 58.29 GR 4.88

2,3,6,7-BIS(ORTHIO-2-TOLYLENE)-1,5,3,7,2,6-DIOXADIAZADIBOROCINE  
CA 52.10920ORGAN.SOLIDAL D 1.0326 NO3622.0 04444444 T 308.50  
C 16 H 16 B 2 N 2 O 2  
MW 289.96 MI 35.72 NA 0.0751 HD 3.43 EM 16.94 GR 3.63

A 265

BIS(ACETOXY)PHENYL BORON OXIDE  
CA 55. 12030ORGAN. UNKNOWN CAL D 1.0827 NO3623.0 04444444 T -0.  
C 16 M 18 B 2 0 1  
Mn 309.94 MI 35.89 MA 0.0754 HD 3.37 EM 14.74 GR 3.11

ISO-BUTYL BIS(P-CHLOROPHENYL)BORONATE  
CA 50. 11764ORGAN. LIQUID ORNO D 1.1417 NO 326.0 04444444 T -0.  
C 16 M 17 B 1 CL 2 0 1  
Mn 307.05 MI 34.32 MA 0.0769 HD 3.81 EM 403.02 GR 90.26

2,3-DIHYDRO-1-PHENETHYL-11H-1-BENZOBOROLE  
CA 54. 07240ORGAN. LIQUIDEST D 1.0900 NO1423.0 04444444 T -0.  
C 16 M 17 B 1  
Mn 220.13 MI 30.93 MA 0.0889 HD 4.88 EM 14.13 GR 4.06

NI-1,1-BIS(P-CHLOROPHENYL)BORONATE  
CA 53. 42710ORGAN. LIQUIDEST D 1.1400 NO1424.0 04444444 T -0.  
C 16 M 17 B 1 CL 2 0 1  
Mn 307.05 MI 34.32 MA 0.0768 HD 3.80 EM 403.02 GR 90.13

TERT-NI-1,1-BIS(P-NITROPHENYL)PEROXYSORATE  
CA 52. 17148ORGAN. LIQUID CAL D 1.1994 NO3624.0 04444444 T -0.  
C 16 M 17 B 1 N 2 0 1  
Mn 376.15 MI 40.99 MA 0.0787 HD 3.27 EM 16.30 GR 3.13

PARA-CHLOROPHENYL PROPIONATE-ORTHOTOLYBORANE  
CA 54. 07240ORGAN. LIQUIDEST D 1.1000 NO1429.0 04444444 T -0.  
C 16 M 18 B 1 CL 1 0 1  
Mn 272.60 MI 34.12 MA 0.0829 HD 4.38 EM 209.31 GR 50.87

P-CHLOROPHENYL ISOBUTOXYPHENYL BORANE  
CA 51. 15440ORGAN. LIQUID KNO D 1.0351 NO 327.0 04444444 T -0.  
C 16 M 18 B 1 CL 1 0 1  
Mn 272.60 MI 34.12 MA 0.0780 HD 4.12 EM 209.31 GR 47.87

PARA-DIOXANE-CHLORODIPHENYL BORANE  
CA 54. 10987ORGAN. SOLIDEST D 1.1000 NO1426.0 04444444 T 74.00  
C 16 M 18 B 1 CL 1 0 2  
Mn 288.60 MI 35.11 MA 0.0806 HD 4.13 EM 209.31 GR 48.05

BORON TRIFLUORIDE-PHENETHYL SULFIDE  
CA 54. 03170ORGAN. UNKNOWN CAL D 1.1766 NO3629.0 04444444 T -0.  
C 16 M 18 B 1 F 3 5 1  
Mn 310.80 MI 37.10 MA 0.0848 HD 4.11 EM 15.84 GR 3.62

5-DIETHYLAMINO-15H-1-DIBENZOBOROLE  
CA 54. 08420ORGAN. UNKNOWN CAL D 1.0400 NO1427.0 04444444 T -0.  
C 16 M 18 B 1 N 1  
Mn 275.15 MI 33.00 MA 0.0874 HD 4.80 EM 15.94 GR 4.25

A 267

DI-ETHYL (2-BIPHENYL)BORONATE  
CA 54. 08430ORGAN. LIQUIDEST D 0.9800 NO1430.0 04444444 T -0.  
C 16 M 19 B 1 D 2  
Mn 294.15 MI 34.91 MA 0.0811 HD 4.41 EM 15.60 GR 3.62

CYCLOC ESTER OF DIETHYL TARTRATE WITH P-VINYLBENZENEACIDIC ACID  
CA 54. 14150ORGAN. SOLID CAL D 1.1135 NO3626.0 04444444 T 58.50  
C 16 M 19 B 1 D 6  
Mn 318.15 MI 38.87 MA 0.0819 HD 4.01 EM 15.60 GR 3.24

BUTYL DIPHENYLTHIOBORINATE  
CA 54. 9180ORGAN. LIQUID KNO D 1.0010 NO 331.0 04444444 T -0.  
C 16 M 19 B 1 S  
Mn 324.21 MI 34.23 MA 0.0812 HD 4.51 EM 16.35 GR 3.08

DIALLYL CHLOROBORONATE-BISPYRIDINE  
CA 51. 29370ORGAN. UNKNOWN CAL D 1.0796 NO3627.0 04444444 T -0.  
C 16 M 20 B 1 CL 1 N 2 0 2  
Mn 318.63 MI 39.25 MA 0.0801 HD 4.08 EM 212.43 GR 43.46

ISOBUTYL BIS(P-CHLOROPHENYL)BORONATE-AMMONIA  
CA 52. 17149ORGAN. SOLID CAL D 1.1288 NO3628.0 04444444 T 110.00  
C 16 M 20 B 1 CL 2 N 1 0 1  
Mn 324.08 MI 38.39 MA 0.0805 HD 4.20 EM 406.30 GR 85.25

P-(2,2-DICARBETHOXY-2-ACETAMIDODETHYL)PHENYL-DIAZONIUM TETRAFLUOROBORATE  
CA 52. 52930ORGAN. UNKNOWN CAL D 1.1344 NO3650.0 04444444 T -0.  
C 16 M 20 B 1 F 4 N 3 0 5  
Mn 421.18 MI 47.25 MA 0.0767 HD 3.25 EM 19.87 GR 3.22

(ISOBUTYLAMINO)DIPHENYL BORANE  
CA 54. 9180ORGAN. LIQUID KNO D 0.9752 NO 332.0 04444444 T -0.  
C 16 M 20 B 1 N  
Mn 237.16 MI 35.00 MA 0.0867 HD 4.95 EM 17.41 GR 4.31

DIETHYLAMINODIPHENYL BORANE  
CA 51. 86750ORGAN. SOLID KNO D 0.9953 NO 333.0 04444444 T 36.50  
C 16 M 20 B 1 N 1  
Mn 237.16 MI 35.00 MA 0.0885 HD 5.06 EM 17.41 GR 4.40

SODIUM ISOBUTOXYTHIOXYDIPHENYL BORATE  
CA 50. 48130ORGAN. SOLID CAL D 1.1790 NO3631.0 04444444 T -0.  
C 16 M 20 B 1 NA 1 0 2  
Mn 278.15 MI 37.12 MA 0.0945 HD 5.09 EM 20.23 GR 5.15

2-DIMETHYLAMINOETHYL DIPHENYL BORINATE  
CA 53. 17144ORGAN. SOLIDEST D 0.9800 NO1431.0 04444444 T 166.50  
C 16 M 20 B 1 N 1 0 1  
Mn 253.16 MI 35.99 MA 0.0839 HD 4.66 EM 17.41 GR 4.06

A 266

2-(2-AMINOETHOXY)-10,11-DIHYDRODIBENZO-16-PICOLIN  
CA 50. 8600ORGAN. SOLIDEST D 1.0300 NO1428.0 04444444 T 195.50  
C 16 M 18 B 1 N 1 0 1  
Mn 251.15 MI 35.99 MA 0.0840 HD 4.45 EM 15.94 GR 3.94

POLYMER FROM BORIC ACID AND 3,3-PRIME-BITOLYLENE 4,4-PRIME-DIISOCYANATE  
CA 54. 23427ORGAN. POLYMER CAL D 1.1412 NO4311.0 04444444 T -0.  
C 16 M 18 B 2 N 6  
Mn 316.01 MI 39.32 MA 0.0870 HD 3.98 EM 22.73 GR 5.03

BUTYL DIPHENYL BORINATE  
CA 52. 17148ORGAN. LIQUID KNO D 0.9834 NO 491.0 04444444 T -0.  
C 16 M 19 B 1 O 1  
Mn 238.15 MI 33.92 MA 0.0844 HD 4.73 EM 15.94 GR 3.88

PHENYLPROPOXYORTHOTOLYBORANE  
CA 49. 10214ORGAN. LIQUID KNO D 0.9749 NO 490.0 04444444 T -0.  
C 16 M 19 B 1 O 1  
Mn 238.15 MI 33.92 MA 0.0836 HD 4.68 EM 15.94 GR 3.85

PROPYL PHENYLORTHOTOLYBORINATE  
CA 52. 20000ORGAN. UNKNOWNEST D 0.9800 NO1429.0 04444444 T -0.  
C 16 M 19 B 1 O 1  
Mn 238.15 MI 33.92 MA 0.0841 HD 4.71 EM 15.94 GR 3.87

T-BUTOXYDIPHENYL BORANE  
CA 51. 95130ORGAN. LIQUID KNO D 0.9720 NO 328.0 04444444 T -0.  
C 16 M 19 B 1 O 1  
Mn 238.15 MI 33.92 MA 0.0834 HD 4.67 EM 15.94 GR 3.83

PHENYLPROPOXY-ORTHOTOLYBORANE  
CA 49. 10214ORGAN. LIQUID KNO D 0.9749 NO 329.0 04444444 T -0.  
C 16 M 19 B 1 O 1  
Mn 238.15 MI 33.92 MA 0.0836 HD 4.68 EM 15.94 GR 3.85

ISO-BUTYL DIPHENYL BORINATE  
CA 51. 95130ORGAN. LIQUID KNO D 0.9630 NO 330.0 04444444 T -0.  
C 16 M 19 B 1 O 1  
Mn 238.15 MI 33.92 MA 0.0826 HD 4.63 EM 15.94 GR 3.80

T-BUTOXYDIPHENYL BORANE  
CA 51. 95130ORGAN. LIQUID KNO D 0.9720 NO 335.0 04444444 T -0.  
C 16 M 19 B 1 O 1  
Mn 238.15 MI 33.92 MA 0.0834 HD 4.67 EM 15.94 GR 3.83

S-BUTOXYDIPHENYL BORANE  
CA 51. 95130ORGAN. LIQUID KNO D 0.9610 NO 336.0 04444444 T -0.  
C 16 M 19 B 1 O 1  
Mn 238.15 MI 33.92 MA 0.0824 HD 4.62 EM 15.94 GR 3.79

A 268

2-AMINOETHYL DI-ORTHOTOLYBORINATE  
CA 53. 80390ORGAN. SOLIDEST D 0.9800 NO1432.0 04444444 T 181.20  
C 16 M 20 B 1 N 1 0 1  
Mn 253.16 MI 35.99 MA 0.0839 HD 4.66 EM 17.41 GR 4.06

2-AMINOETHYL DI-META-TOLYBORINATE  
CA 53. 80390ORGAN. SOLIDEST D 0.9800 NO1433.0 04444444 T 180.90  
C 16 M 20 B 1 N 1 0 1  
Mn 253.16 MI 35.99 MA 0.0839 HD 4.66 EM 17.41 GR 4.06

2-AMINOETHYL DI-PARA-TOLYBORINATE  
CA 53. 80390ORGAN. SOLIDEST D 0.9800 NO1434.0 04444444 T 186.00  
C 16 M 20 B 1 N 1 0 1  
Mn 253.16 MI 35.99 MA 0.0839 HD 4.66 EM 17.41 GR 4.06

2-ETHYLAMINOETHYL DI-PHENYL BORINATE  
CA 53. 17144ORGAN. SOLIDEST D 0.9800 NO1435.0 04444444 T 189.00  
C 16 M 20 B 1 N 1 0 1  
Mn 253.16 MI 35.99 MA 0.0839 HD 4.66 EM 17.41 GR 4.06

2-AMINOETHOXYDI-PARA-METHOXYPHENYL-BORANE  
CA 53. 80390ORGAN. SOLID CAL D 1.028 NO3630.0 04444444 T 172.00  
C 16 M 20 B 1 N 1 0 3  
Mn 285.15 MI 37.97 MA 0.0825 HD 4.54 EM 17.41 GR 3.78

BIS(ETHYL)PHENYL BORON OXIDE  
CA 54. 86840ORGAN. LIQUID KNO D 0.9526 NO 334.0 04444444 T -0.  
C 16 M 20 B 2 O 1  
Mn 249.98 MI 35.89 MA 0.0824 HD 4.59 EM 17.72 GR 4.07

DIAMINOBUTYL BORANE  
CA 52. 19016ORGAN. LIQUID KNO D 1.0078 NO 840.0 04444444 T -0.  
C 16 M 21 B 1 N 2  
Mn 252.18 MI 37.07 MA 0.0892 HD 5.06 EM 19.22 GR 4.63

BIS(2-AMINOETHYL)-2-BIPHENYL BORONATE  
CA 54. 86840ORGAN. SOLID CAL D 0.9825 NO3632.0 04444444 T 134.00  
C 16 M 21 B 1 N 2 0 2  
Mn 284.18 MI 39.05 MA 0.0813 HD 4.37 EM 19.22 GR 4.00

PROPOXY-ORTHOTOLY-PARA-TOLYBORANE  
CA 49. 10214ORGAN. UNKNOWN KNO D 0.9600 NO 98.0 04444444 T -0.  
C 16 M 21 B 1 O 1  
Mn 240.16 MI 35.92 MA 0.0865 HD 5.06 EM 17.06 GR 4.11

(ETHYLAMINO)ISOBUTOXY-1-NAPHTHYLBORANE  
CA 54. 86840ORGAN. LIQUID KNO D 0.9750 NO 337.0 04444444 T -0.  
C 16 M 22 B 1 N 1 0 1  
Mn 255.18 MI 37.99 MA 0.0874 HD 5.06 EM 18.88 GR 4.34

A 264

DIPHENYLISOBUTYLBORONATE-AMMONIA  
CA 53.1310ORGAN, SOLIDEST D 0.9800 NO1436.0 04444444 T 104.00  
C 16 H 22 B 1 N 1 O 1  
MW 255.18 MI 37.99 MA 0.0879 MD 5.09 EM 18.88 GR 4.37

BUTYL DIPHENYLBORONATE-AMMONIA  
CA 50.2330ORGAN, SOLIDEST D 0.9800 NO1437.0 04444444 T 90.00  
C 16 H 22 B 1 N 1 O 1  
MW 255.18 MI 37.99 MA 0.0879 MD 5.09 EM 18.88 GR 4.37

DIPHENYL ACETAMIDOPHENYLBORONATE  
CA 52.10924ORGAN, SOLIDEST D 1.0429 NO3633.0 04444444 T 221.50  
C 16 H 22 B 1 N 1 O 2  
MW 351.18 MI 43.93 MA 0.0786 MD 3.94 EM 18.88 GR 3.38

TRIMETHYLBORANE-9-FLUOROPENTABORATE  
CA 54.2049ORGAN, UNKNOWNCAL D 1.1576 NO3634.0 04444444 T -0.  
C 16 H 22 B 3 F 1 O 10  
MW 442.46 MI 50.78 MA 0.0800 MD 3.47 EM 24.45 GR 3.85

ETHYLAMINE-CHLORODIPHENYLBORINE  
CA 54.1376ORGAN, SOLIDEST D 0.9325 NO3635.0 04444444 T 125.50  
C 16 H 24 B 1 CL 1 N 2  
MW 240.66 MI 41.27 MA 0.0797 MD 4.04 EM 215.87 GR 41.71

DI(2,2-DIMETHYLBORONATE)PARAPHENYLBORONATE-CYCLOCYCLOESTER  
CA 52.3714ORGAN, SOLIDEST D 0.9900 NO1438.0 04444444 T 731.25  
C 16 H 24 B 2 O 4  
MW 302.01 MI 42.86 MA 0.0812 MD 4.55 EM 20.66 GR 3.91

DIBUTYL PARAPHENYLBORONATE  
CA 53.14037ORGAN, LIQUIDEST D 0.8400 NO1439.0 04444444 T -0.  
C 16 H 28 B 1 O 2  
MW 260.20 MI 40.91 MA 0.0796 MD 4.86 EM 20.00 GR 3.89

1,1-DITHIO-1-PHENYLANTHRYL ETNYL-PHOSPHONIUM FLUOROBORATE  
CA 52.1878ORGAN, SOLIDEST D 1.0888 NO3636.0 04444444 T 85.00  
C 16 H 20 B 1 F 4 O 2 P 1  
MW 368.18 MI 48.40 MA 0.0862 MD 4.63 EM 22.85 GR 4.07

2,2-PRIME-THERYLAMINE-DIBUTYL PHENYLBORONATE-CYCLOCYCLOESTER  
CA 52.1910ORGAN, SOLIDEST D 1.0100 NO1440.0 04444444 T 97.00  
C 16 H 26 B 1 N 1 O 2  
MW 279.21 MI 42.98 MA 0.0950 MD 5.75 EM 21.81 GR 4.82

NISIN-METHYLDIBENZOAMMONIUMBENZENE-1,4-DIBORONATE  
CA 54.10595ORGAN, SOLIDEST D 1.0055 NO4405.0 04444444 T 295.00  
C 16 H 26 B 2 N 2 O 4  
MW 332.04 MI 47.00 MA 0.0857 MD 4.74 EM 24.29 GR 4.63

A 271

IPARA-DIBUTYL PHOSPHONIUMPHENYLDIBUTYLBORONATE-ETHYL FLUOROBORATE  
CA 52.1828ORGAN, SOLIDEST D 1.0897 NO3640.0 04444444 T -0.  
C 16 H 30 B 2 F 1 O 2 P 1  
MW 441.04 MI 57.62 MA 0.0842 MD 4.38 EM 28.55 GR 4.17

BUTYL DICYCLOHEXYLBORONATE  
CA 54.2980ORGAN, UNKNOWNEST D 0.8700 NO1444.0 04444444 T 0.  
C 16 H 31 B 1 O 1  
MW 250.25 MI 45.72 MA 0.0982 MD 6.49 EM 24.40 GR 5.11

BUTYLDI(1-CYCLOHEXYLOXY)BORANE  
CA 51.6509ORGAN, LIQUIDEST D 0.9200 NO1445.0 04444444 T -0.  
C 16 H 31 B 1 O 2  
MW 266.24 MI 46.71 MA 0.0975 MD 6.45 EM 24.40 GR 5.08

AMMONIUM CALCIUM BORATE TARTRATE DECAHYDRATE  
CA 53.4493ORGAN, SOLIDEST D 1.5500 NO 87.0 00000000 T -0.  
C 16 H 52 B 2 CA 3 N 4 O 38  
MW 1050.48 MI 113.54 MA 0.1008 MD 4.02 EM 57.55 GR 5.11

CYCLOHEXYL DIISOBUTYLBORONATE  
CA 54.24347ORGAN, LIQUIDEST D 0.8392 NO3641.0 04444444 T -0.  
C 16 H 33 B 1 O 1  
MW 252.26 MI 47.92 MA 0.0960 MD 6.61 EM 25.87 GR 5.18

CHLORODI(1-METHYLHEPTYLOXY)BORINE  
CA 53.5782ORGAN, UNKNOWNEST D 0.9000 NO1446.0 04444444 T -0.  
C 16 H 34 B 1 CL 1 O 2  
MW 304.72 MI 51.11 MA 0.0909 MD 6.05 EM 221.05 GR 39.32

CHLORODI(1-CYCLOHEXYLOXY)BORANE  
CA 50.12718ORGAN, UNKNOWNEST D 0.9060 NO3642.0 04444444 T -0.  
C 16 H 34 B 1 CL 1 O 2  
MW 304.72 MI 51.11 MA 0.0915 MD 6.09 EM 221.05 GR 39.59

CHLORODI(1-ETHYLHEPTYLOXY)BORANE  
CA 50.12718ORGAN, UNKNOWNEST D 0.8970 NO3643.0 04444444 T -0.  
C 16 H 34 B 1 CL 1 O 2  
MW 304.72 MI 51.11 MA 0.0906 MD 6.03 EM 221.05 GR 39.19

DIETHYL(10-METHYLDECYL)BORINE  
CA 53.10015ORGAN, UNKNOWNEST D 0.7800 NO1447.0 04444444 T -0.  
C 16 H 35 B 1 O 2  
MW 278.28 MI 48.93 MA 0.0965 MD 6.90 EM 27.33 GR 5.39

BORON TRIFLUORIDE-DODECYLBIS(INDOXY)ETHYLAMINE  
CA 51.8130ORGAN, UNKNOWNCAL D 0.8921 NO3642.0 04444444 T -0.  
C 16 H 35 B 1 F 3 N 1 O 2  
MW 341.28 MI 55.85 MA 0.0879 MD 5.31 EM 28.84 GR 4.51

A 270

PENNYL DIBISOPENTYLBORONATE  
CA 54.24347ORGAN, LIQUIDEST D 0.8497 NO3637.0 04444444 T -0.  
C 16 H 37 B 1 O 1  
MW 246.21 MI 45.92 MA 0.0882 MD 5.76 EM 21.47 GR 5.37

DIISOPENTYL PHENYLBORONATE  
CA 52.17146ORGAN, LIQUIDEST D 0.9221 NO499.0 04444444 T -0.  
C 16 H 27 B 1 O 2  
MW 262.21 MI 42.91 MA 0.0909 MD 5.72 EM 21.47 GR 4.55

DI(NEOPENTYLOXY)PHENYLBORANE  
CA 50.2180ORGAN, LIQUIDEST D 0.9003 NO3640.0 04444444 T -0.  
C 16 H 27 B 1 O 2  
MW 262.21 MI 42.91 MA 0.0887 MD 5.58 EM 21.47 GR 4.44

DIBUTYL(12-PHENYLETHYL)THIOBORONATE  
CA 53.3600ORGAN, LIQUIDEST D 0.9316 NO3638.0 04444444 T -0.  
C 16 H 27 B 1 S 2  
MW 294.33 MI 43.53 MA 0.0848 MD 5.26 EM 22.98 GR 4.48

DIPENTYL DITHIOPHENYLBORONATE  
CA 52.3715ORGAN, LIQUIDEST D 0.9500 NO1441.0 04444444 T -0.  
C 16 H 27 B 1 S 2  
MW 294.33 MI 43.53 MA 0.0848 MD 5.26 EM 22.98 GR 4.47

2-AMINOETHYL(1-METHYLHEPTYLOXY)BORONATE  
CA 53.1208ORGAN, SOLIDEST D 0.9800 NO1442.0 04444444 T 94.00  
C 16 H 27 B 1 N 1 O 1  
MW 260.22 MI 42.99 MA 0.0975 MD 6.12 EM 22.54 GR 5.11

B-PHENYLETHYLDIBUTYLBORONATE  
CA 53.3600ORGAN, UNKNOWNEST D 0.9516 NO 84.0 04440440 T -0.  
C 16 H 28 B 1 S 2  
MW 295.34 MI 44.53 MA 0.0884 MD 5.43 EM 23.71 GR 4.60

LITHIUM BORATE TARTRATE  
CA 54.11746ORGAN, SOLIDEST D 1.2908 NO3639.0 04444444 T -0.  
C 16 H 28 B 2 Li 1 O 34  
MW 855.44 MI 86.66 MA 0.0788 MD 2.54 EM 24.41 GR 2.27

2-DICYCLOHEXYLAMINO-4-METHYL-1,3,2-DIOXABORINANE  
CA 53.2010ORGAN, UNKNOWNEST D 1.0100 NO1443.0 04444444 T -0.  
C 16 H 30 B 1 N 1 O 2  
MW 279.24 MI 46.98 MA 0.1024 MD 6.54 EM 24.75 GR 5.39

OCTYLDIBUTYLBORONATE  
CA 53.3600ORGAN, UNKNOWNEST D 0.8770 NO 85.0 04440440 T -0.  
C 16 H 30 B 1 O 2  
MW 297.30 MI 46.53 MA 0.0827 MD 5.13 EM 25.18 GR 4.47

A 272

1-METHYLHEPTYL DIBUTYLBORONATE  
CA 53.6004ORGAN, LIQUIDEST D 0.8000 NO1448.0 04444444 T -0.  
C 16 H 35 B 1 O 2  
MW 294.26 MI 49.92 MA 0.0946 MD 6.63 EM 27.34 GR 5.18

DIBUTYL OCTYLBORONATE  
CA 53.6104ORGAN, UNKNOWNEST D 0.8400 NO1449.0 04444444 T -0.  
C 16 H 35 B 1 O 2  
MW 270.28 MI 50.91 MA 0.0953 MD 6.45 EM 27.34 GR 5.12

CETYLBORONIC ACID  
CA 52.14527ORGAN, UNKNOWNEST D 0.8400 NO1450.0 04444444 T -0.  
C 16 H 35 B 1 O 2  
MW 270.28 MI 50.91 MA 0.0953 MD 6.45 EM 27.34 GR 5.12

DI(1-ETHYLHEPTYLOXY)BORONATE  
CA 54.8404ORGAN, UNKNOWNEST D 0.8596 NO3643.0 04444444 T -0.  
C 16 H 35 B 1 O 2 S 1  
MW 302.34 MI 52.21 MA 0.0894 MD 5.99 EM 28.10 GR 4.81

OCTYL DIBUTYLBORONATE  
CA 53.3600ORGAN, LIQUIDEST D 0.8770 NO3644.0 04444444 T -0.  
C 16 H 35 B 1 O 2  
MW 302.40 MI 51.53 MA 0.0900 MD 6.11 EM 28.65 GR 5.04

BORON TRIFLUORIDE-BIS(OCTANOL)  
CA 54.22417ORGAN, UNKNOWNEST D 0.8653 NO3645.0 04444444 T -0.  
C 16 H 36 B 1 F 3 O 2  
MW 328.28 MI 55.78 MA 0.0886 MD 5.72 EM 28.24 GR 4.44

TETRAETHYLBORONATE  
CA 50.2330ORGAN, SOLIDEST D 0.8594 NO3646.0 04444444 T 154.00  
C 16 H 36 B 1 F 4 N 1  
MW 329.24 MI 56.16 MA 0.0883 MD 5.66 EM 29.44 GR 4.63

LITHIUM TETRAISOBUTOXYBORATE  
CA 49.13142ORGAN, UNKNOWNEST D 0.8730 NO3647.0 04444444 T -0.  
C 16 H 36 B 1 Li 1 O 4  
MW 310.22 MI 54.90 MA 0.0931 MD 6.10 EM 28.15 GR 4.77

DIBUTOXYDIBUTYLBORONATE  
CA 52.16187ORGAN, LIQUIDEST D 0.8600 NO1451.0 04444444 T -0.  
C 16 H 36 B 1 N 1 O 2  
MW 285.29 MI 52.98 MA 0.0942 MD 6.54 EM 29.15 GR 5.29

BIS(DI-SEC-BUTYL)BORONOXIDE  
CA 53.14527ORGAN, UNKNOWNEST D 0.7800 NO1452.0 04444444 T -0.  
C 16 H 36 B 2 O 1  
MW 266.09 MI 51.89 MA 0.0916 MD 6.35 EM 29.40 GR 5.20

A 273

## BIS(DIBUTYLBORON)OXIDE

CA 54, 261ORGAN, LIQUIDKNO D 0.7918 NO 341.0 04444444 T -0.  
C 16 H 36 B 2 O 1  
MW 266.10 MI 51.89 MA 0.0930 MD 6.49 EM 29.46 GR 5.28

## BIS(DIBUTYLBORON)OXIDE

CA 54, 261ORGAN, LIQUIDKNO D 0.7723 NO 342.0 04444444 T -0.  
C 16 H 36 B 2 O 1  
MW 266.10 MI 51.89 MA 0.0907 MD 6.29 EM 29.46 GR 5.15

## BUTYLBORATE-BORON TRIFLUORIDE-BUTANOL

CA 50, 1635ORGAN, LIQUIDKNO D 0.9290 NO 343.0 04444444 T -0.  
C 16 H 37 B 3 F 3 O 4  
MW 372.1 MI 59.75 MA 0.0898 MD 5.56 EM 30.48 GR 4.57

## TRI-TERT-BUTYLBORINE-DIETHYLAMINE

CA 13, 238ORGAN, UNKNOWN D 0.7800 NO 1453.0 04444444 T -0.  
C 16 H 38 B 1 N 1  
MW 255.31 MI 53.00 MA 0.0975 MD 6.99 EM 30.61 GR 5.63

## BORANE-DIOCIPLPHOSPHINE

CA 54, 2465ORGAN, UNKNOWN D 0.7637 NO 3648.0 04444444 T -0.  
C 16 H 38 B 1 P 1  
MW 272.27 MI 53.26 MA 0.0900 MD 6.42 EM 31.36 GR 5.30

## HYDRAZOBIS(DIBUTYLBORINE)

CA 53, 1595ORGAN, LIQUIDKNO D 0.8083 NO 481.0 04444444 T -0.  
C 16 H 38 B 2 N 2  
MW 280.14 MI 53.04 MA 0.0957 MD 6.60 EM 33.09 GR 5.75

## BIS(METHYL-HEXYLKETONE)-DIBORANE

CA 50, 7156ORGAN, UNKNOWN D 0.8800 NO 1494.0 04444444 T -0.  
C 16 H 36 B 2 O 2  
MW 284.12 MI 54.88 MA 0.1024 MD 7.09 EM 30.93 GR 5.77

## BIS(DIBUTYLPHOSPHORATE)

CA 54, 1674ORGAN, LIQUIDKNO D 0.9561 NO 1858.0 04444444 T -0.  
C 16 H 38 B 2 P 2  
MW 380.36 MI 58.10 MA 0.0880 MD 5.75 EM 33.98 GR 5.14

## CALCIUM TETRAETHYLBORATE

CA 49, 1381ORGAN, SOLIDICAL D 0.9796 NO 3649.0 04444444 T -0.  
C 16 H 40 B 4 O 8  
MW 422.82 MI 64.40 MA 0.0900 MD 5.59 EM 36.40 GR 5.09

## MAGNESIUM DIBIS(2-ETHYL-2-PYRIDYL)BORATE

CA 49, 1381ORGAN, UNKNOWN D 0.9508 NO 3629.0 04444444 T -0.  
C 16 H 40 B 2 N 2 O 8  
MW 406.66 MI 64.04 MA 0.0912 MD 5.70 EM 32.94 GR 4.69

A 273

## BORON TRIFLUORIDE-11,3-DIPHENYL-3-PENTADIENONE

CA 52, 9933ORGAN, SOLIDEST D 1.2000 NO 1456.0 04444444 T 99.00  
C 17 H 14 B 3 F 3 O 1  
MW 302.12 MI 53.60 MA 0.0804 MD 3.55 EM 12.16 GR 2.91

## PHENYL ORTHOPHENYLENE BORATE-PYRIDINE

CA 53, 21906ORGAN, SOLIDICAL D 1.1391 NO 3659.0 04444444 T 136.50  
C 17 H 14 B 1 N 1 O 3  
MW 291.13 MI 52.78 MA 0.0773 MD 3.30 EM 13.02 GR 3.07

## ORTHO-HYDROXYPHENYL ORTHO-PHENYLENE BORATE-PYRIDINE

CA 53, 21756ORGAN, UNKNOWN D 1.1493 NO 3660.0 04444444 T -0.  
C 17 H 14 B 1 N 1 O 4  
MW 307.13 MI 53.77 MA 0.0761 MD 3.16 EM 13.03 GR 2.96

## TRIS(2-THIENYL)BORINE-PYRIDINE

CA 53, 16111ORGAN, UNKNOWN D 1.2809 NO 3661.0 04444444 T -0.  
C 17 H 14 B 3 N 1 S 3  
MW 339.31 MI 53.71 MA 0.0766 MD 3.19 EM 15.30 GR 3.48

## CHLORODIPHENYLBORINE-PYRIDINE

CA 51, 8675ORGAN, SOLIDEST D 1.2500 NO 1497.0 04444444 T 136.50  
C 17 H 15 B 1 Cl 1 N 1  
MW 279.59 MI 52.01 MA 0.0882 MD 4.04 EM 208.20 GR 96.07

## DIPHENYLBORINE(DI-PYRIDINE)

CA 53, 4271ORGAN, UNKNOWN D 1.0177 NO 3662.0 04444444 T -0.  
C 17 H 15 B 1 N 2  
MW 246.13 MI 51.69 MA 0.0789 MD 3.98 EM 13.75 GR 3.43

## DIPHENYLBORINE-PYRIDINE

CA 53, 4270ORGAN, SOLIDEST D 1.0900 NO 1498.0 04444444 T 106.50  
C 17 H 15 B 1 N 1  
MW 245.14 MI 51.81 MA 0.0852 MD 4.29 EM 14.49 GR 3.88

## 4-BENZAMIDODIETHOXYBENZENE DIAZONIUM FLUOBORATE

CA 53, 8904ORGAN, UNKNOWN D 1.0464 NO 3663.0 04444444 T -0.  
C 17 H 18 B 1 F 4 N 3 O 3  
MW 399.17 MI 64.08 MA 0.0696 MD 2.84 EM 14.41 GR 2.91

## BENZENEBOSONIC ACID ANHYDRIDE, CYCLIC ESTER C15 1,2-CYCLOPENTANEDIOL

CA 52, 18286ORGAN, UNKNOWN D 1.0165 NO 3664.0 04444444 T -0.  
C 17 H 18 B 2 O 3  
MW 291.97 MI 56.68 MA 0.0769 MD 3.77 EM 16.27 GR 3.41

## BENZENEBOSONIC ACID ANHYDRIDE, CYCLIC ESTER WITH TRANS-1,2-CYCLOPENTANEDIOL

CA 52, 18286ORGAN, SOLIDICAL D 1.0165 NO 3665.0 04444444 T 90.00  
C 17 H 18 B 2 O 3  
MW 291.97 MI 56.68 MA 0.0769 MD 3.77 EM 16.27 GR 3.41

A 274

## BIS(BIS(DIETHYLAMINO)HYDROXYBORON)OXIDE DIETHYLAMINO DIBORATE

CA 54, 11285ORGAN, UNKNOWN D 0.8588 NO 3651.0 04444444 T -0.  
C 16 H 40 B 2 N 4 O 5  
MW 390.17 MI 64.13 MA 0.0848 MD 5.29 EM 36.72 GR 4.86

## SODIUM BORATE TARTRATE

CA 54, 11796ORGAN, SOLIDICAL D 1.3375 NO 3652.0 04444444 T -0.  
C 16 H 40 B 2 Na 10 O 10  
MW 1124.03 MI 106.60 MA 0.0764 MD 2.87 EM 71.40 GR 5.12

## PHOSPHINO-DIBUTYLBORANE DIMER

CA 49, 10972ORGAN, UNKNOWN D 0.8200 NO 3653.0 04444444 T -0.  
C 16 H 40 B 2 P 2  
MW 316.09 MI 57.56 MA 0.0899 MD 6.25 EM 36.04 GR 5.63

## BIS(DIBUTYLIMINO)BORINE-HYDRAZINE

CA 54, 20936ORGAN, SOLIDICAL D 0.7722 NO 3654.0 04114444 T 39.80  
C 16 H 42 B 2 N 4  
MW 312.18 MI 61.16 MA 0.0912 MD 6.26 EM 36.18 GR 5.69

## DECABORANE-BIS(DIPROPYLAMINE)BIS(METHYL CYANIDE)

CA 54, 11796ORGAN, UNKNOWN D 0.8340 NO 3655.0 04444444 T -0.  
C 16 H 48 B 10 N 4  
MW 604.29 MI 74.94 MA 0.0952 MD 6.10 EM 53.71 GR 6.63

## PENTABORON NONAHYDRIDE-DIETHYLAMINE

CA 52, 10899ORGAN, LIQUIDKNO D 0.8040 NO 508.0 04144444 T -0.  
C 16 H 53 B 5 N 4  
MW 399.73 MI 75.09 MA 0.1022 MD 7.22 EM 50.43 GR 6.86

## BIS(2,4,6-TRICHLOROPHENYL)CHLOROBORATE-PYRIDINE

CA 51, 2777ORGAN, SOLIDICAL D 1.6007 NO 3658.0 04444444 T 90.00  
C 17 H 9 B 2 Cl 7 N 1 O 2  
MW 518.27 MI 55.19 MA 0.0679 MD 1.74 EM 1370.47 GR 264.50

## BIS(PARANITROPHENYL)CHLOROBORONATE-PYRIDINE

CA 51, 2777ORGAN, SOLIDICAL D 1.2287 NO 3659.0 04444444 T 195.00  
C 17 H 13 B 2 Cl 1 N 3 O 2  
MW 401.58 MI 53.09 MA 0.0702 MD 2.40 EM 208.90 GR 38.50

## 1-FLUOREN-2-YL-1,3-BUTANEDIOL BORON COMPLEX

CA 52, 13710ORGAN, UNKNOWN D 1.2135 NO 3658.0 04444444 T -0.  
C 17 H 13 B 1 F 2 O 2  
MW 298.11 MI 52.30 MA 0.0792 MD 3.19 EM 11.36 GR 2.78

## PARACHLOROPHENYLCHLORODIPHENYLBORINE-PYRIDINE

CA 51, 8675ORGAN, SOLIDEST D 1.2500 NO 1498.0 04444444 T 131.00  
C 17 H 14 B 1 Cl 2 N 1  
MW 314.04 MI 52.21 MA 0.0780 MD 3.30 EM 401.91 GR 74.62

A 275

## 1,2,4,5-BIS-O-(PHENYLBORONYL)PENTAERYTHRITOL

CA 49, 11560ORGAN, SOLIDEST D 1.1300 NO 1459.0 04444444 T 201.50  
C 17 H 18 B 2 O 5  
MW 307.47 MI 57.67 MA 0.0833 MD 3.98 EM 18.27 GR 3.60

## DIPYRACATECHOL BORIC ACID SALT

CA 49, 3828ORGAN, SOLIDICAL D 0.9755 NO 3646.0 04444444 T 298.50  
C 17 H 19 B 1 N 1 O 4  
MW 312.17 MI 56.77 MA 0.0790 MD 3.58 EM 18.67 GR 3.14

## PARA-NITROANIS-CHLOROPHENYL-PARA-TOLYLBORINE

CA 54, 10947ORGAN, SOLIDEST D 1.1500 NO 1460.0 04444444 T 76.00  
C 17 H 20 B 1 Cl 1 O 2  
MW 302.62 MI 57.92 MA 0.0868 MD 4.58 EM 210.79 GR 48.25

## N-(DIPHENYLBORYL)PIPERIDINE

CA 51, 8675ORGAN, SOLIDEST D 1.0400 NO 1461.0 04444444 T 89.50  
C 17 H 20 B 1 N 1  
MW 249.17 MI 53.81 MA 0.0900 MD 5.03 EM 17.42 GR 4.38

## PROPOXYORTHOTOLYLMALATOLYLBORINE

CA 49, 10214ORGAN, LIQUIDKNO D 0.9646 NO 492.0 04444444 T -0.  
C 17 H 21 B 1 O 1  
MW 252.17 MI 56.73 MA 0.0846 MD 4.64 EM 17.08 GR 3.93

## ISOPENTYL AND NEOPENTYL DIPHENYLBORONATE

CA 52, 20000ORGAN, UNKNOWN D 0.9700 NO 1462.0 04444444 T -0.  
C 17 H 21 B 1 O 1  
MW 252.17 MI 56.73 MA 0.0851 MD 4.87 EM 17.08 GR 3.96

## PROPYL DITOLYLBORONATE

CA 52, 20000ORGAN, UNKNOWN D 0.9700 NO 1463.0 04444444 T -0.  
C 17 H 21 B 1 O 1  
MW 252.17 MI 56.73 MA 0.0851 MD 4.87 EM 17.08 GR 3.96

## ISOBUTORYPHENYL-ORTHOTOLYLBORANE

CA 51, 13440ORGAN, UNKNOWN D 0.9714 NO 97.0 04444444 T -0.  
C 17 H 21 B 1 O 1  
MW 252.17 MI 56.73 MA 0.0852 MD 4.87 EM 17.08 GR 3.96

## NEOPENTYLOXYDIPHENYLBORANE

CA 51, 9513ORGAN, LIQUIDKNO D 0.9650 NO 344.0 04444444 T -0.  
C 17 H 21 B 1 O 1  
MW 252.17 MI 56.73 MA 0.0847 MD 4.84 EM 17.08 GR 3.94

## PROPOXY-ORTHOTOLYLM-TOLYLBORANE

CA 49, 10214ORGAN, LIQUIDKNO D 0.9646 NO 345.0 04444444 T -0.  
C 17 H 21 B 1 O 1  
MW 252.17 MI 56.73 MA 0.0846 MD 4.84 EM 17.08 GR 3.93

A 277

ISOBUTYL PHENYL-P-TOLYLBORONATE  
CA 54.10467ORGAN. LIQUIDNO D 0.9720 NO1468.0 04444444 T -0.  
C 17 H 21 B 1 O 1  
MW 252.17 MI 36.73 NA 0.0853 MD 4.88 EM 17.08 GR 3.97

PROPOXY-O-TOLYL-P-TOLYLBORANE  
CA 44.10314ORGAN. LIQUIDNO D 0.9648 NO1467.0 04444444 T -0.  
C 17 H 21 B 1 O 1  
MW 252.17 MI 36.73 NA 0.0848 MD 4.84 EM 17.08 GR 3.94

DIANILINOISOBUTYLBORINE  
CA 53.12090ORGAN. LIQUIDNO D 0.9954 NO1468.0 04444444 T -0.  
C 17 H 23 B 1 N 2  
MW 266.21 MI 39.86 NA 0.0898 MD 5.18 EM 20.70 GR 4.66

ISOPHENYL DIPHENYLBORINATE-AMMONIA  
CA 52.17148ORGAN. SOLIDEST D 0.9700 NO1464.0 04444444 T 100.50  
C 17 H 24 B 1 N 1 O 1  
MW 269.21 MI 40.80 NA 0.0885 MD 5.21 EM 20.36 GR 4.42

ISOBUTYL PHENYL PARATOLYLBORINATE-AMMONIATE  
CA 54.10467ORGAN. SOLIDEST D 0.9700 NO1465.0 04444444 T 88.00  
C 17 H 24 B 1 N 1 O 1  
MW 269.21 MI 40.80 NA 0.0885 MD 5.21 EM 20.36 GR 4.42

ISOBUTYL N-QUINOLYLBORONATE  
CA 53.14103ORGAN. LIQUIDNO D 1.0600 NO1466.0 04444444 T -0.  
C 17 H 24 B 1 N 1 O 2  
MW 285.21 MI 41.79 NA 0.0936 MD 5.37 EM 20.36 GR 4.56

12-ETHOXY-12H-1-BENZOPIRYAN-2-YLITRI ETHYL-PHOSPHONIUM FLUOROBORATE  
CA 52.18248ORGAN. SOLIDEST D 1.0743 NO3687.0 04444444 T 151.00  
C 17 H 20 B 1 P 4 O 2  
MW 340.14 MI 49.21 NA 0.0799 MD 4.22 EM 22.87 GR 3.71

PIRIDINE-PERHYDRODIBENZOPHENYLENE ADDUCT  
AD235. 0750ORGAN. UNKNOMCAL D 0.8436 NO4486.0 04444444 T -0.  
C 17 H 24 B 1 N 1  
MW 259.27 MI 44.81 NA 0.0884 MD 5.72 EM 24.03 GR 4.74

LYANOLISOPHENYLBORINE-PHENYLAMINE  
CA 54.12670ORGAN. SOLIDEST D 0.9200 NO1467.0 04444444 T 115.25  
C 17 H 29 B 1 N 2  
MW 272.25 MI 45.88 NA 0.0934 MD 5.90 EM 25.11 GR 5.11

BENZYL DIISOBUTYLBORINATE  
CA 54.24194ORGAN. LIQUIDNO D 0.8591 NO3688.0 04444444 T -0.  
C 17 H 29 B 1 O 1  
MW 280.22 MI 47.75 NA 0.0890 MD 5.77 EM 22.95 GR 4.56

A 279

PARA-CHLOROPHENYL BORATE  
CA 51.27770ORGAN. SOLIDEST D 1.4000 NO1472.0 04444444 T 99.00  
C 18 H 12 B 1 CL 3 O 3  
MW 393.48 MI 34.12 NA 0.0731 MD 2.57 EM 19.83 GR 127.26

BORON TRICHLORIDE-TRIPARACHLOROPHENYL PHOSPHATE  
CA 54.12869ORGAN. SOLIDEST D 1.5500 NO3673.0 04444444 T 92.00  
C 18 H 12 B 1 CL 6 O 4 P 1  
MW 546.83 MI 40.84 NA 0.0887 MD 2.06 EM178.99 GR 202.34

ORTHO-NITROPHENYL BORATE  
CA 51.27770ORGAN. SOLIDEST D 1.2809 NO3674.0 04444444 T 108.00  
C 18 H 12 B 1 N 3 O 3  
MW 429.14 MI 39.67 NA 0.0709 MD 2.14 EM 13.74 GR 2.45

1-ORTHO-NITROPHENYLENEBISBORATE  
CA 53.21908ORGAN. SOLIDEST D 1.1500 NO1473.0 04444444 T 102.00  
C 18 H 12 B 2 O 6  
MW 345.93 MI 34.46 NA 0.0690 MD 2.40 EM 11.89 GR 2.38

2,2-PRIME-1-ORTHO-PHENYLENEBISBORATE  
CA 50.78580ORGAN. SOLIDEST D 1.2000 NO1474.0 04444444 T 72.25  
C 18 H 12 B 2 O 6  
MW 345.93 MI 34.46 NA 0.0720 MD 2.51 EM 11.89 GR 2.48

TRI-ORTHO-CHLOROPHENYLBOROXINE  
AD155. 4580ORGAN. UNKNOMCAL D 1.4684 NO4488.0 04444444 T -0.  
C 18 H 12 B 3 CL 3 O 3  
MW 419.12 MI 36.06 NA 0.0767 MD 2.55 EM 996.61 GR 126.95

(PETA-PHENYLENEBISBORATE) CHLOROMETA-(DICHLORO-BORYLOR)PHENOXYBORANE  
CA 53.21908ORGAN. SOLIDEST D 1.5512 NO3675.0 04444444 T -0.  
C 18 H 12 B 5 CL 6 O 4  
MW 580.32 MI 45.60 NA 0.0702 MD 1.93 EM1181.35 GR 190.20

2,2-PRIME-BIPHENYLENE PHENYL-OXONIUM FLUOROBORATE  
CA 53.21796ORGAN. UNKNOMCAL D 1.2569 NO3676.0 04444444 T -0.  
C 18 H 13 B 1 F 4 O 1  
MW 332.12 MI 36.70 NA 0.0791 MD 2.96 EM 11.52 GR 2.63

5,5-DIHYDRO-5-HYDROXY-DIBENZIC(11,12)AZARONINE PICRATE  
CA 51.13480ORGAN. SOLIDEST D 1.2090 NO3677.0 04444444 T 159.00  
C 18 H 13 B 1 N 4 O 8  
MW 424.15 MI 40.75 NA 0.0700 MD 2.23 EM 15.35 GR 2.67

4-PHENYL-9,10-BOROXAPHENANTHRENE  
CA 54.13400ORGAN. SOLIDEST D 1.0200 NO1859.0 04444444 T 82.50  
C 18 H 13 B 1 O 1  
MW 256.12 MI 29.54 NA 0.0709 MD 3.12 EM 11.72 GR 2.69

A 280

DIISUTYL 2-METHYLBORONATE  
CA 53.70440ORGAN. LIQUIDEST D 0.9200 NO1468.0 04444444 T -0.  
C 17 H 29 B 1 O 2  
MW 276.24 MI 45.72 NA 0.0917 MD 5.62 EM 22.95 GR 4.60

LITHIUM 2-PYRIDINYLBISISOBUTYLBORONATE  
CA 53.16128ORGAN. UNKNOMCAL D 0.9271 NO3689.0 04444444 T -0.  
C 17 H 31 B 1 LI 1 N 1 O 3  
MW 315.20 MI 50.79 NA 0.0900 MD 5.49 EM 25.58 GR 4.53

DICYCLOHEXYL ISOBUTYLBORONATE  
CA 53.12090ORGAN. LIQUIDNO D 0.9137 NO1475.0 04444444 T -0.  
C 17 H 33 B 1 O 2  
MW 280.27 MI 49.72 NA 0.0976 MD 6.48 EM 25.89 GR 5.08

PIPERIDINE-PERHYDRODIBENZOPHENYLENE ADDUCT  
AD235. 0630ORGAN. UNKNOMCAL D 0.7415 NO4487.0 04444444 T -0.  
C 17 H 35 B 1 N 1  
MW 264.29 MI 50.81 NA 0.0859 MD 5.91 EM 28.43 GR 4.80

2,4,6-TRICHLOROPHENYL BORATE  
CA 51.27770ORGAN. SOLIDEST D 1.6500 NO1469.0 04444444 T 173.00  
C 18 H 6 B 3 CL 3 O 3  
MW 400.18 MI 35.32 NA 0.0585 MD 0.99 EM1736.10 GR 290.80

TRIS(2,4,6-TRIFLUORO-2,3,4,5-DIFLUOROPHENYL)BORATE  
CA 55.34310ORGAN. UNKNOMCAL D 1.4978 NO3670.0 04444444 T -0.  
C 18 H 6 B 3 F 33 O 3  
MW 908.07 MI 67.09 NA 0.0867 MD 0.60 EM 8.53 GR 0.85

2,3-DICHLOROPHENYL BORATE  
CA 51.27770ORGAN. SOLIDEST D 1.5000 NO1470.0 04444444 T 116.00  
C 18 H 9 B 2 CL 2 O 3  
MW 406.83 MI 34.72 NA 0.0681 MD 1.66 EM174.97 GR 213.67

2,4,6-TRICHLOROPHENYLBORATE AMMONIATE  
CA 54.21908ORGAN. SOLIDEST D 1.7075 NO3671.0 04444444 T 150.00  
C 18 H 9 B 3 CL 3 O 3  
MW 617.21 MI 39.39 NA 0.0686 MD 1.50 EM1759.39 GR 293.18

BORON TRICHLORIDE-TRI-2,4,6-DICHLOROPHENYL PHOSPHATE  
CA 54.12869ORGAN. SOLIDEST D 1.7518 NO3672.0 04444444 T 88.00  
C 18 H 9 B 3 CL 6 O 4 P 1  
MW 650.18 MI 40.84 NA 0.0680 MD 1.46 EM1760.13 GR 285.66

ORTHO-CHLOROPHENYL BORATE  
CA 51.10393ORGAN. UNKNOMCAL D 1.4000 NO1471.0 04444444 T -0.  
C 18 H 12 B 1 CL 3 O 3  
MW 393.48 MI 34.12 NA 0.0731 MD 2.57 EM 993.63 GR 127.26

A 280

10-PHENYL-10,9-BOROXAPHENANTHRENE  
CA 54.46080ORGAN. SOLIDEST D 1.1000 NO1475.0 04444444 T 82.50  
C 18 H 13 B 1 O 1  
MW 256.12 MI 29.54 NA 0.0764 MD 3.38 EM 11.22 GR 2.40

5,6-DIHYDRO-6-PHENYLBENZIC(11,12)AZARONINE  
CA 53.13480ORGAN. SOLIDEST D 1.0900 NO1476.0 04444444 T 169.50  
C 18 H 14 B 1 N 1  
MW 259.14 MI 30.47 NA 0.0788 MD 3.60 EM 13.04 GR 3.35

TRIPHENYLBORINE  
CA 51.22000ORGAN. SOLIDEST D 1.0600 NO1477.0 04444444 T 142.00  
C 18 H 15 B 1  
MW 242.14 MI 30.35 NA 0.0806 MD 3.96 EM 12.60 GR 3.35

BORON TRICHLORIDE-TRIPHENYLAMINE  
CA 53.23820ORGAN. SOLIDEST D 1.5720 NO3678.0 04444444 T -0.  
C 18 H 15 B 3 CL 3 N 1  
MW 362.92 MI 35.22 NA 0.0920 MD 3.92 EM 597.11 GR 159.46

TRIS(PARA-CHLOROPHENYL)BORONATE  
CA 53.33180ORGAN. SOLIDEST D 1.2372 NO3679.0 04444444 T 710.00  
C 18 H 15 B 3 CL 3 N 3  
MW 390.93 MI 37.36 NA 0.0715 MD 2.86 EM 599.27 GR 114.35

BORON TRICHLORIDE-TRIPHENYL PHOSPHATE  
CA 54.12869ORGAN. SOLIDEST D 1.3406 NO3680.0 04444444 T 88.00  
C 18 H 15 B 3 CL 3 O 4 P 1  
MW 645.47 MI 39.44 NA 0.0716 MD 2.75 EM 597.85 GR 108.86

TRIS(2,3-DICHLOROPHENYLBORATE)-BISAMMONIA  
CA 51.27770ORGAN. SOLIDEST D 1.3692 NO3681.0 04444444 T 125.00  
C 18 H 15 B 6 CL 6 N 2 O 3  
MW 530.90 MI 42.86 NA 0.0686 MD 2.33 EM1181.53 GR 183.55

BORON TRIFLUORIDE-TRIPHENYL PHOSPHATE  
CA 54.12869ORGAN. SOLIDEST D 1.2332 NO3687.0 04444444 T 87.50  
C 18 H 15 B 3 F 3 O 4 P 1  
MW 394.11 MI 39.71 NA 0.0748 MD 2.83 EM 16.74 GR 2.78

BORON TRIFLUORIDE-TRIPHENYLPHOSPHINE  
CA 53.52260ORGAN. UNKNOMCAL D 1.2096 NO3682.0 04444444 T -0.  
C 18 H 15 B 3 F 3 P 1  
MW 390.11 MI 35.75 NA 0.0789 MD 3.31 EM 14.74 GR 3.25

TRIPHENYLOXONIUM TETRAFLUOROBORATE  
CA 52.40050ORGAN. UNKNOMCAL D 1.1710 NO3684.0 04444444 T -0.  
C 18 H 15 B 3 F 4 O 1  
MW 334.14 MI 36.70 NA 0.0775 MD 3.17 EM 12.99 GR 2.74

A 281

4-METHYL-2,6-DIPHENYLPYRILUM TETRAFLUOROBORATE  
CA 54, 1202000000, SOLIDCAL D 1.1710 NO3689.0 04444444 T 238.00  
C 18 H 15 B 1 F 4 O 1  
Mn 234.14 MI 36.70 MA 0.0773 MD 3.17 EM 12.99 GR 2.74

TRIPHENYLSULFONIUM TETRAFLUOROBORATE  
CA 51, 1397000000, SOLIDCAL D 1.2141 NO3686.0 04444444 T 186.50  
C 18 H 15 B 1 F 4 S 1  
Mn 350.20 MI 37.01 MA 0.0773 MD 3.13 EM 13.75 GR 2.87

SODIUM TRIPHENYLBORATE  
CA 44, 7116000000, UNKNOWNCAL U 1.2506 NO3687.0 04444444 T -0.  
C 18 H 15 B 1 Na 1  
Mn 265.13 MI 31.76 MA 0.0702 MD 3.26 EM 16.59 GR 4.71

2-DIPHENYLPHENYLBORONIC ACID  
CA 54, 8842000000, UNKNOWNCAL U 1.0800 NO1478.0 04444444 T -0.  
C 18 H 15 B 1 O 1  
Mn 258.14 MI 31.56 MA 0.0795 MD 3.78 EM 12.69 GR 3.20

PHENOXYPHENYLBORONIC ACID  
CA 51, 4513000000, UNKNOWNCAL D 1.0840 NO 349.0 04444444 T -0.  
C 18 H 15 B 1 O 1  
Mn 258.14 MI 31.54 MA 0.0798 MD 3.79 EM 12.69 GR 3.21

DIPHENYL PHENYLBORONATE  
CA 52, 7920000000, SOLIDEST D 1.0800 NO1479.0 04444444 T 99.00  
C 18 H 15 B 1 O 2  
Mn 274.14 MI 32.53 MA 0.0772 MD 3.56 EM 12.69 GR 3.01

PHENYLIC DIPHENYLSILANEDIOXIDE WITH DIHYDROXYPHENYLBORANE  
CA 44, 1037500000, POLYMERAL U 1.4763 NO4406.0 04444444 T -0.  
C 18 H 15 B 1 O 2 Si 1  
Mn 302.23 MI 33.79 MA 0.0994 MD 4.41 EM 13.48 GR 3.96

PHENYL BORATE  
CA 53, 1498000000, SOLIDEST D 1.1300 NO1480.0 01414444 T 96.00  
C 18 H 15 B 1 O 3  
Mn 290.14 MI 31.52 MA 0.0786 MD 3.52 EM 12.70 GR 2.98

TRIPHENYLBORINE  
CA 54, 1100000000, UNKNOWNCAL U 1.1399 NO1688.0 04444444 T -0.  
C 18 H 15 B 1 O 3  
Mn 290.14 MI 31.52 MA 0.0793 MD 3.53 EM 12.70 GR 3.00

PARA-MERCAPTOPHENYL BORATE  
CA 51, 2033000000, UNKNOWNCAL D 1.2726 NO3689.0 04444444 T -0.  
C 18 H 15 B 1 O 3 S 1  
Mn 386.32 MI 37.42 MA 0.0754 MD 3.02 EM 14.97 GR 3.07

A 283

DIPHENYL-B-ANILINYLBORINE  
CA 54, 1301000000, SOLIDCAL D 1.0902 NO3695.0 04444444 T 57.00  
C 18 H 16 B 1 N 1  
Mn 257.15 MI 32.62 MA 0.0802 MD 3.94 EM 14.50 GR 3.57

SODIUM HYDROXYTRIPHENYLBORATE  
CA 46, 8607000000, UNKNOWNCAL U 1.2186 NO3696.0 04444444 T -0.  
C 18 H 16 B 1 Na 1 O 1  
Mn 282.14 MI 33.75 MA 0.0878 MD 4.16 EM 17.32 GR 4.51

DERIVATIVE OF 1,4-BENZENEDITHIOBONIC ACID  
CA 44, 2242000000, UNKNOWNCAL D 1.0567 NO1697.0 04444444 T -0.  
C 18 H 16 B 2 N 4  
Mn 310.00 MI 36.80 MA 0.0756 MD 3.29 EM 14.11 GR 3.43

PHENYL-B-ANILINYL-DIPHENYLBORANE  
CA 51, 1770000000, SOLIDCAL D 1.0889 NO3698.0 04444444 T 100.00  
C 18 H 17 B 1 Cl 1 N 1 O 1  
Mn 309.62 MI 35.81 MA 0.0759 MD 3.60 EM 20.48 GR 4.62

DIPHENYL-B-ANILINYLBORINE  
CA 54, 8689000000, SOLIDEST D 1.1000 NO1486.0 04444444 T 85.00  
C 18 H 17 B 1 N 1  
Mn 272.17 MI 34.67 MA 0.0844 MD 4.14 EM 16.32 GR 3.97

TRIPHENYLBORINE-AMMONIATE  
CA 44, 1091000000, SOLIDEST D 1.0900 NO1489.0 04444444 T 207.00  
C 18 H 18 B 1 N 1  
Mn 254.17 MI 34.62 MA 0.0877 MD 4.56 EM 15.97 GR 4.05

PHENYL-1-NAPHTHYL-12-AMINOETHANEDITHIOBORANE  
CA 53, 1310700000, SOLIDEST D 1.0500 NO1487.0 04444444 T 228.50  
C 18 H 18 B 1 N 2 O 1  
Mn 275.17 MI 35.61 MA 0.0818 MD 4.14 EM 15.97 GR 3.67

PHENYL-DIPHENYLBORONATE-PYRIDINE  
CA 52, 2000300000, UNKNOWNCAL D 1.0500 NO1486.0 04444444 T -0.  
C 18 H 18 B 1 N 2 O 1  
Mn 275.17 MI 35.61 MA 0.0818 MD 4.14 EM 15.97 GR 3.67

DIPHENYLBORONIC ACID  
CA 54, 8842000000, SOLIDEST D 1.1400 NO1488.0 04444444 T 170.00  
C 18 H 18 B 1 N 2  
Mn 287.17 MI 36.76 MA 0.0879 MD 4.30 EM 14.13 GR 4.33

PHENOXYPHENYLBORONIC ACID  
CA 51, 4513000000, UNKNOWNCAL D 1.0840 NO 350.0 04444444 T -0.  
C 18 H 18 B 1 O 1  
Mn 261.16 MI 34.54 MA 0.0864 MD 4.50 EM 14.84 GR 3.72

A 282

PHENYL TRIFLUOROBORATE  
CA 53, 2160000000, SOLIDEST D 1.2100 NO1481.0 04444444 T 59.00  
C 18 H 15 B 1 F 3  
Mn 338.32 MI 34.45 MA 0.0742 MD 3.23 EM 14.97 GR 3.22

2,4,6-TRICHLORO-1,3,5-TRIPHENYLBORAZINE  
CA 13, 2930000000, SOLIDCAL D 1.2719 NO3690.0 04444444 T 270.00  
C 18 H 15 B 3 Cl 3 N 3  
Mn 412.17 MI 39.30 MA 0.0730 MD 2.79 EM 602.09 GR 111.91

2,4,6-TRIS(P-CHLOROPHENYL)BORAZINE  
CA 54, 8689000000, SOLIDCAL D 1.2719 NO3692.0 04444444 T 269.50  
C 18 H 15 B 3 Cl 3 N 3  
Mn 412.17 MI 39.30 MA 0.0730 MD 2.79 EM 602.09 GR 111.91

3,12,19H-TRIS(BENZO-1,3,2-DIAZABOROL)BORAZINE  
CA 53, 3618000000, SOLIDCAL U 1.0989 NO4407.0 04444444 T 350.00  
C 18 H 15 B 3 N 6  
Mn 347.83 MI 38.91 MA 0.0740 MD 2.85 EM 21.95 GR 4.14

TRIS(ORTHOPHENYLENEDIAMINE)BORAZINE  
CA 54, 8842000000, SOLIDCAL D 1.0989 NO4489.0 04444444 T -0.  
C 18 H 15 B 3 N 6  
Mn 347.83 MI 38.91 MA 0.0740 MD 2.85 EM 21.95 GR 4.18

TRIPHENYLBOROXIN  
CA 54, 1096000000, SOLIDCAL D 1.1900 NO 348.0 01444444 T 216.00  
C 18 H 15 B 3 O 3  
Mn 311.78 MI 35.46 MA 0.0815 MD 3.45 EM 15.48 GR 3.46

TRIPHENYLBOROXIN  
CA 53, 2010000000, SOLIDEST D 1.2500 NO1482.0 04444444 T 99.50  
C 18 H 15 B 3 O 3  
Mn 359.78 MI 38.43 MA 0.0804 MD 3.14 EM 15.48 GR 3.24

TRIPHENYLBOROTHIN  
CA 44, 1302000000, SOLIDCAL D 1.3222 NO3693.0 04444444 T 232.50  
C 18 H 15 B 3 S 3  
Mn 359.96 MI 36.39 MA 0.0805 MD 3.32 EM 17.75 GR 3.93

HISIPARAKALUNOPHENYLBORONIC-AMMONIATE  
CA 52, 1008000000, SOLIDEST D 1.3800 NO1483.0 04444444 T 214.00  
C 18 H 16 B 1 Cl 2 N 1  
Mn 328.07 MI 35.07 MA 0.0887 MD 4.05 EM 40.14 GR 102.21

NONUN TRIFLUORIDE-TRIPHENYLBORONIC-AMMONIATE  
CA 54, 1171000000, SOLIDCAL U 1.1728 NO3694.0 04444444 T 133.50  
C 18 H 16 B 1 F 3 N 1  
Mn 344.24 MI 37.67 MA 0.0773 MD 3.28 EM 14.43 GR 2.76

A 284

TRIPHENYL PHOSPHITE BORINE  
CA 52, 3400000000, SOLIDCAL D 1.0842 NO3699.0 04444444 T 54.00  
C 18 H 18 B 1 O 3 P 1  
Mn 324.14 MI 37.85 MA 0.0763 MD 3.63 EM 16.72 GR 3.37

1,1,3-TRIPHENYLBORAZINE  
CA 52, 1846000000, SOLIDEST D 1.1500 NO1489.0 04444444 T 184.00  
C 18 H 18 B 3 N 3  
Mn 308.83 MI 38.70 MA 0.0868 MD 4.04 EM 20.41 GR 4.69

2,4,6-TRIPHENYLBORAZINE  
CA 54, 1091500000, SOLIDEST D 1.1500 NO1490.0 04444444 T 184.50  
C 18 H 18 B 3 N 3  
Mn 308.83 MI 38.70 MA 0.0868 MD 4.04 EM 20.41 GR 4.69

TRI-B-PHENYLBORONIC-AMMONIATE  
CA 14, 2400000000, SOLIDEST D 1.2400 NO1491.0 04444444 T 130.00  
C 18 H 18 B 3 N 3 O 1  
Mn 356.83 MI 41.67 MA 0.0872 MD 3.77 EM 20.92 GR 4.78

ETHYL 3-HYDROXYCHLORIDE DIPHENYLBORONATE  
CA 53, 6064000000, SOLIDEST D 1.0300 NO1492.0 04444444 T 74.50  
C 18 H 19 B 1 O 3  
Mn 294.17 MI 37.52 MA 0.0791 MD 4.01 EM 15.63 GR 3.70

TRI-B-CHLOROTRI-N-PHENYLBORAZOLE  
CA 54, 8800000000, UNKNOWNCAL D 1.1363 NO3700.0 04444444 T -0.  
C 18 H 19 B 3 Cl 3 N 3  
Mn 416.20 MI 41.30 MA 0.0712 MD 3.12 EM 604.48 GR 94.67

ETHOXYTRIPHENYLBORINE-PYRIDINE  
CA 52, 2930000000, SOLIDCAL D 0.9875 NO3701.0 04444444 T 105.00  
C 18 H 20 B 1 Cl 1 N 2 O 1  
Mn 376.85 MI 39.88 MA 0.0726 MD 3.64 EM 212.47 GR 38.78

2-AMINOETHYL BIS(PARA-VINYLBORONATE)  
CA 13, 2400000000, UNKNOWNCAL D 0.9800 NO1491.0 04444444 T -0.  
C 18 H 20 B 1 N 2 O 1  
Mn 277.19 MI 37.61 MA 0.0801 MD 4.26 EM 17.44 GR 3.71

HENZENEBORONIC ACID-AMMONIATE-ETHYLIC ESTER WITH 1,2-CYCLOHEXYL  
DIOL  
CA 52, 1028000000, UNKNOWNCAL D 0.9823 NO3702.0 04444444 T -0.  
C 18 H 20 B 2 O 3  
Mn 306.00 MI 34.49 MA 0.0784 MD 3.87 EM 17.76 GR 3.44

ETHYLENEBORONIC ACID-AMMONIATE-ETHYLIC ESTER WITH TRANS-1,2-CYCLOHEXYL  
DIOL  
CA 52, 1028000000, UNKNOWNCAL D 0.9823 NO3703.0 04444444 T -0.  
C 18 H 20 B 2 O 3  
Mn 306.00 MI 34.49 MA 0.0784 MD 3.87 EM 17.76 GR 3.44

A 283

2,3-DIHYDRO-3-METHYL-1-ISOYA-METHYLPHENETHYL-1-IM-1-BENZOBOROLE  
CA 54 6720ORGAN.LIQUIDEST D 1.0400 NO1494.0 04444444 T -0.  
C 18 H 21 B 1  
Mn 246.19 MI 36.55 MA 0.0923 MD 5.30 EM 17.09 GR 4.31

U-13-PHENYL PROPYL BORATE TETRAIN  
AD239. 0780ORGAN.UNKNOWCAL D 0.9993 NO4490.0 04404440 T -0.  
C 18 H 21 B 1  
Mn 246.19 MI 36.55 MA 0.0886 MD 5.09 EM 17.09 GR 4.15

CYCLOHEXYL DIPHENYL BORATE  
CA 50 6920ORGAN.UNKNOWCAL D 1.0800 NO1495.0 04444444 T -0.  
C 18 H 21 B 1  
Mn 246.19 MI 39.52 MA 0.0868 MD 4.61 EM 17.10 GR 3.76

TRI-N-PHENYL TRI-B-AMINOBORAZOLE  
CA 55 4426ORGAN. SOLIDCAL D 1.0810 NO3704.0 04444444 T 300.00  
C 18 H 21 B 3 N 6  
Mn 351.87 MI 44.91 MA 0.0811 MD 3.79 EM 26.35 GR 4.76

CYCLOHEXYL MESITYLBORINE  
AD239. 0430ORGAN.UNKNOWCAL D 1.0436 NO4491.0 04444444 T -0.  
C 18 H 22 B 1 CL  
Mn 284.85 MI 38.75 MA 0.0856 MD 4.86 EM 212.27 GR 46.87

CYCLOHEXYL MESITYLBORANE  
CA 51 1284ORGAN. SOLIDEST U 0.9700 NO1496.0 04444444 T 75.75  
C 18 H 22 B 1 P 1  
Mn 266.19 MI 39.84 MA 0.0846 MD 4.79 EM 17.90 GR 3.90

LITHIUM DI-PARA-TOLYLBORINATE-DIOXANE  
CA 54 10967ORGAN. SOLIDCAL D 1.0175 NO3705.0 04444444 T -0.  
C 18 H 22 B 1 LI 1 D 3  
Mn 304.13 MI 41.53 MA 0.0837 MD 4.43 EM 17.91 GR 3.61

DIISOBUTYL MESITYLBORINE  
AD239. 0430ORGAN.UNKNOWCAL U 0.9821 NO4492.0 04444444 T -0.  
C 18 H 22 B 1 M 3  
Mn 291.22 MI 40.76 MA 0.0828 MD 4.47 EM 21.06 GR 4.28

POLYACETOXYMORBOSILOXANE  
CA 51 1454ORGAN.POLYMERCAL D 1.8032 NO4312.0 04444444 T -0.  
C 18 H 22 B 1 O 761 2  
Mn 417.57 MI 47.00 MA 0.0884 MD 4.14 EM 19.40 GR 3.65

CARBANILIC ACID; PARA-BORON-DIAMYDRIDE-DI-ETHYL ESTER  
CA 52 14553ORGAN.UNKNOWCAL D 1.1144 NO3706.0 04444444 T -0.  
C 18 H 22 B 2 N 2 O 7  
Mn 400.03 MI 47.99 MA 0.0794 MD 3.69 EM 21.39 GR 3.99

A 287

TRIMETHYLSILYL DIPHENYLBORINATE  
CA 53 13044ORGAN.LIQUIDNO D 0.9740 NO 511.0 04444444 T -0.  
C 18 H 25 B 1 O 151 1  
Mn 296.31 MI 42.80 MA 0.0867 MD 4.95 EM 20.81 GR 4.12

DIISOBUTYL 1-NAPHTHALENEBORONATE  
CA 50 11964ORGAN.LIQUIDNO D 0.9777 NO 352.0 04444444 T -0.  
C 18 H 25 B 1 U 2  
Mn 284.22 MI 42.53 MA 0.0881 MD 5.18 EM 20.03 GR 4.15

DIISOBUTYL 1-NAPHTHYLBORANE  
CA 50 5531ORGAN.LIQUIDEST D 0.9800 NO1501.0 04444444 T -0.  
C 18 H 25 B 1 N 2  
Mn 295.04 MI 43.50 MA 0.0870 MD 5.00 EM 21.42 GR 4.29

ISO-BUTYL O-ORTHO-TOLYLBORINATE-AMMONIA  
CA 52 1714ORGAN. SOLIDEST U 0.9900 NO1502.0 04444444 T 89.25  
C 18 H 26 B 1 N 1 O 1  
Mn 283.23 MI 43.61 MA 0.0881 MD 5.25 EM 21.84 GR 4.41

ISO-BUTYL DI-PARA-TOLYLBORINATE-AMMONIA  
CA 52 1714ORGAN. SOLIDEST U 0.9900 NO1503.0 04444444 T 78.00  
C 18 H 26 B 1 N 1 O 1  
Mn 283.23 MI 43.61 MA 0.0881 MD 5.25 EM 21.84 GR 4.41

BUTYL DIPHENYLBORINATE-ETHYLAMINE  
NACH 41271ORGAN. SOLIDEST D 0.9500 NO1504.0 04444444 T 181.00  
C 18 H 26 B 1 N 1 O 1  
Mn 283.23 MI 43.61 MA 0.0881 MD 5.25 EM 21.84 GR 4.41

1-ETHYLMANIDIOISOBUTOXY-1-NAPHTHYLBORANE  
CA 51 15440ORGAN.LIQUIDNO D 0.9502 NO 353.0 04444444 T -0.  
C 18 H 26 B 1 N 1 O 1  
Mn 283.23 MI 43.61 MA 0.0881 MD 5.25 EM 21.84 GR 4.41

2-AMINOETHYL BIS(PARA-DIMETHYLAMINOPHENYL BORINATE)  
CA 52 14553ORGAN. SOLIDCAL D 0.9052 NO3706.0 04444444 T 138.00  
C 18 H 25 B 1 N 3 O 1  
Mn 311.25 MI 45.75 MA 0.0801 MD 4.55 EM 24.00 GR 4.20

ETHYL ACETOACETATE BORATE  
CA 51 14254ORGAN.UNKNOWCAL U 1.0052 NO4408.0 04444444 T -0.  
C 18 H 27 B 1 O 9  
Mn 398.23 MI 51.46 MA 0.0782 MD 4.11 EM 21.51 GR 3.77

DIISOBUTYLCHLOROBORINE-PYRIMINE  
CA 52 14553ORGAN.UNKNOWCAL U 0.9799 NO3709.0 04444444 T -0.  
C 18 H 22 B 1 CL 1 3 2  
Mn 316.71 MI 46.89 MA 0.0868 MD 5.19 EM 218.83 GR 40.53

A 286

DIMESITYLBORONHYDROXYBORANE  
CA 51 1284ORGAN. SOLIDEST D 1.0000 NO1497.0 04444444 T 150.50  
C 18 H 23 B 1 O 1  
Mn 266.20 MI 39.54 MA 0.0895 MD 5.20 EM 18.56 GR 4.20

DIMESITYLBORONIC ACID  
AD252. 7020ORGAN. SOLIDCAL D 0.9605 NO4272.0 04444444 T 140.90  
C 18 H 23 B 1 O 1  
Mn 266.20 MI 39.54 MA 0.0859 MD 5.00 EM 18.56 GR 4.03

BUTYL DIPARATOLYLBORINATE  
CA 53 4271ORGAN.LIQUIDEST D 0.9700 NO1498.0 04444444 T -0.  
C 18 H 23 B 1 O 1  
Mn 266.20 MI 39.54 MA 0.0868 MD 5.05 EM 18.56 GR 4.07

ISO-BUTYL DI-PARA-TOLYLBORINATE  
CA 54 10512ORGAN.UNKNOWCAL D 0.9700 NO1499.0 04444444 T -0.  
C 18 H 23 B 1 O 1  
Mn 266.20 MI 39.54 MA 0.0868 MD 5.05 EM 18.56 GR 4.07

ISOBUTYL DIORTHOTOLYLBORINATE  
CA 52 4532ORGAN.LIQUIDNO D 0.9701 NO 516.0 04444444 T -0.  
C 18 H 23 B 1 O 1  
Mn 266.20 MI 39.54 MA 0.0868 MD 5.05 EM 18.56 GR 4.07

ISOBUTYL DIPARATOLYLBORINATE  
CA 52 1714ORGAN.LIQUIDNO D 0.9630 NO 515.0 04444444 T -0.  
C 18 H 23 B 1 O 1  
Mn 266.20 MI 39.54 MA 0.0862 MD 5.01 EM 18.56 GR 4.04

DI-PARA-TOLYLBORONIC ACID-DIOXANE  
CA 54 10967ORGAN. SOLIDEST D 1.0800 NO1500.0 04444444 T -0.  
C 18 H 23 B 1 O 3  
Mn 298.20 MI 41.52 MA 0.0906 MD 5.02 EM 18.57 GR 4.05

LITHIUM BIS(ORTHO-TOLYLBORONHYDROXYBORONIC ACID  
CA 54 10967ORGAN. SOLIDCAL D 0.9832 NO3707.0 04444444 T -0.  
C 18 H 24 B 1 LI 1 D  
Mn 274.15 MI 41.55 MA 0.0843 MD 4.87 EM 19.37 GR 3.93

BIS(PHENYLPROPYLBORONDIJUXIE  
CA 54 8040ORGAN.LIQUIDNO D 0.9975 NO 351.0 04444444 T -0.  
C 18 H 24 B 2 O 1  
Mn 278.03 MI 41.51 MA 0.0861 MD 4.98 EM 20.69 GR 4.29

TRIS(PHENYLPHOSPHINEBORINE)  
CA 54 3203ORGAN.UNKNOWCAL D 1.1532 NO3691.0 04444444 T -0.  
C 18 H 24 B 3 P 3  
Mn 365.77 MI 45.48 MA 0.0886 MD 4.56 EM 27.55 GR 5.23

A 288

RISIN-ETHYLBIS(THANOLAMMONIUM)BENZENE-1,4-DIBORONATE  
CA 54 15555ORGAN.UNKNOWCAL U 0.9750 NO4409.0 04444444 T 275.00  
C 18 H 30 B 2 N 2 U 4  
Mn 360.09 MI 52.62 MA 0.0858 MD 4.89 EM 27.25 GR 4.44

2-PYRIMINE-11,2-CYCLOHEXANEDIOXYBIS(METHANHYDRO-1,3,2-BENZODIOXABOROLE  
NACH 33044ORGAN.LIQUIDEST D 1.1700 NO1505.0 04444444 T -0.  
C 18 H 30 B 2 O 6  
Mn 364.08 MI 52.46 MA 0.1015 MD 5.01 EM 25.10 GR 4.86

LITHIUM TRISOBUTOXYPHENYLBORATE  
CA 54 15142ORGAN. SOLIDCAL D 0.9263 NO3710.0 04444444 T -0.  
C 18 H 32 B 1 LI 1 O  
Mn 314.21 MI 51.53 MA 0.0915 MD 5.68 EM 25.25 GR 4.48

DECAHOPANE-ANILINE  
AD218. 6010ORGAN.UNKNOWCAL U 1.0283 NO4232.0 04444444 T -0.  
C 18 H 32 B 1 O 3  
Mn 398.68 MI 57.47 MA 0.0924 MD 4.97 EM 40.93 GR 6.76

TRIMETHYLBORANE  
CA 54 15218ORGAN.UNKNOWCAL D 0.8500 NO1598.0 04444444 T -0.  
C 18 H 33 B 1  
Mn 260.28 MI 48.55 MA 0.0995 MD 6.49 EM 25.90 GR 5.09

TRICYCLOHEXYLBORANE  
CA 54 15218ORGAN.UNKNOWCAL D 0.8500 NO1597.0 04444444 T -0.  
C 18 H 33 B 1  
Mn 260.28 MI 48.55 MA 0.0995 MD 6.49 EM 25.90 GR 5.09

TRICYCLOHEXYLBORINE  
CA 54 8581ORGAN. SOLIDEST U 0.9200 NO1506.0 04444444 T 109.00  
C 18 H 33 B 1  
Mn 260.28 MI 48.55 MA 0.1034 MD 7.03 EM 25.90 GR 5.51

TRIS(2-HEXYNYLBORANE  
CA 52 14553ORGAN.LIQUIDEST D 0.9500 NO1507.0 04444444 T -0.  
C 18 H 33 B 1  
Mn 260.28 MI 48.55 MA 0.1067 MD 7.25 EM 25.90 GR 5.69

LITHIUM PYRIDINOMETHYLENE TRIS(ISOBUTOXY)BORATE  
CA 53 16120ORGAN.UNKNOWCAL D 0.9185 NO3711.0 04444444 T -0.  
C 18 H 33 B 1 LI 1 N 1 O 3  
Mn 329.23 MI 53.60 MA 0.0901 MD 5.55 EM 27.06 GR 4.55

TRICYCLOHEXYLBORATE  
CA 51 10167ORGAN. SOLIDEST D 0.9800 NO1508.0 04444444 T 56.40  
C 18 H 33 B 1 O  
Mn 308.28 MI 51.52 MA 0.0986 MD 6.32 EM 25.90 GR 4.90



A 289

## TRIS(9-GARDBENHOXY-9-PROPYL)BORATE

CA 94.13880ORGAN.LIQUIDKNO D 1.0880 NO 82.0 04440440 T -0.  
C 18 H 33 B 1 O 3  
Mw 404.28 MI 57.46 MA 0.0931 MD 5.35 EM 25.91 GR 4.20

## N,N-DIPHENYL-1,1-DI(1-PROPYLBORYL)-N-PHENYL-HYDRAZINE

CA 94.20934ORGAN.LIQUIDKNO D 0.8720 NO3712.0 04444444 T -0.  
C 18 H 33 B 2 N 2  
Mw 299.12 MI 51.66 MA 0.0907 MD 5.79 EM 29.43 GR 5.17

## 2,4,6-TRICHLORO-1,3,5-TRICYCLOHEXYLBORAZINE

CA 94.11974ORGAN. SOLIDICAL D 1.0386 NO3713.0 04444444 T 218.00  
C 18 H 33 B 3 Cl 3  
Mw 430.32 MI 57.30 MA 0.0893 MD 4.80 EM 615.26 GR 89.45

## TRICYCLOHEXYLBOROXINE

CA 94.13672ORGAN. SOLIDEST D 1.0200 NO1509.0 04444444 T 91.50  
C 18 H 33 B 3 O 3  
Mw 329.92 MI 53.46 MA 0.0946 MD 6.15 EM 28.69 GR 5.36

## MONO-N-PHENYL DIODECYLPHOSPHINE

CA 94.15718ORGAN. UNKNOWN D 0.8377 NO3714.0 04444444 T -0.  
C 18 H 36 B 1 P 1  
Mw 292.26 MI 50.88 MA 0.0878 MD 5.87 EM 28.40 GR 4.91

## BIS(TRIETHYLSILYL)PHENYLBORONATE

CA 94.13044ORGAN.LIQUIDKNO D 0.9280 NO 512.0 04144444 T -0.  
C 18 H 35 B 1 O 2 Si 2  
Mw 350.48 MI 55.05 MA 0.0878 MD 5.58 EM 28.93 GR 4.61

## 1,2-DITHIO-2-BORNYL-1,1-DIETHYL PHOSPHONIUM FLUOROBORATE

CA 94.18284ORGAN. SOLIDICAL D 0.9221 NO3715.0 04444444 T 107.50  
C 18 H 36 B 1 F 4 O 1 P 1  
Mw 386.28 MI 59.03 MA 0.0849 MD 5.18 EM 30.22 GR 4.15

## TRICYCLOHEXYLAMINOBOROXINE

CA 94.01780ORGAN. UNKNOWN D 0.9900 NO1510.0 04444444 T -0.  
C 18 H 36 B 3 N 3  
Mw 305.33 MI 54.78 MA 0.1089 MD 7.03 EM 31.34 GR 6.12

## TRICYCLOHEXYL PHOSPHITE BORINE

CA 94.34100ORGAN. SOLIDICAL D 0.8685 NO3716.0 04444444 T 69.00  
C 18 H 36 B 1 O 3 P 1  
Mw 362.28 MI 55.85 MA 0.0894 MD 5.40 EM 29.43 GR 4.57

## LITHYLBORANE BIS(DIBUTYLBORINE)

CA 94.17888ORGAN.LIQUIDICAL D 0.7636 NO3718.0 04144444 T -0.  
C 18 H 36 B 2  
Mw 274.13 MI 52.52 MA 0.0881 MD 6.04 EM 29.49 GR 4.95

A 291

## OCTADECYL BORATE

CA 94.14527ORGAN. UNKNOWN D 0.8800 NO1518.0 04444444 T -0.  
C 18 H 39 B 1 O 2  
Mw 298.33 MI 56.53 MA 0.1004 MD 6.43 EM 10.31 GR 5.18

## TRIS(1,2,2-TRIMETHYLBOROPROPYL)BORATE

CA 94.33280ORGAN. SOLIDEST D 0.8300 NO1519.0 04444444 T 40.50  
C 18 H 39 B 4 O 3  
Mw 316.33 MI 57.52 MA 0.0915 MD 6.20 EM 30.31 GR 4.82

## PINACOLYL BORATE

CA 94.37820ORGAN. UNKNOWN D 0.8300 NO1520.0 04444444 T -0.  
C 18 H 39 B 1 O 3  
Mw 314.33 MI 57.52 MA 0.0915 MD 6.20 EM 30.31 GR 4.82

## N-METHYLPENT-2-YL BORANE

CA 94.06080ORGAN. UNKNOWN D 0.8300 NO1521.0 04444444 T -0.  
C 18 H 39 B 1 O 3  
Mw 314.33 MI 57.52 MA 0.0915 MD 6.20 EM 30.31 GR 4.82

## TRI-1,5-METHOXYARYL-BORANE

CA 94.14510ORGAN.LIQUIDEST D 0.8300 NO1522.0 04444444 T -0.  
C 18 H 39 B 1 O 3  
Mw 314.33 MI 57.52 MA 0.0915 MD 6.20 EM 30.31 GR 4.82

## 1,1-DIMETHYLBUTYL BORATE

CA 94.45810ORGAN.LIQUIDEST D 0.8300 NO1523.0 04444444 T -0.  
C 18 H 39 B 1 O 3  
Mw 314.33 MI 57.52 MA 0.0915 MD 6.20 EM 30.31 GR 4.82

## HEAVY BORATE

CA 94.10450ORGAN.LIQUIDKNO D 0.9567 NO 355.0 04444444 T -0.  
C 18 H 39 B 1 O 3  
Mw 314.33 MI 57.52 MA 0.1055 MD 7.15 EM 30.31 GR 5.46

## 1,1-DIMETHYLBUTYL BORATE

CA 94.13880ORGAN.LIQUIDKNO D 0.8260 NO 356.0 04444444 T -0.  
C 18 H 39 B 1 O 3  
Mw 314.33 MI 57.52 MA 0.0910 MD 6.17 EM 30.31 GR 4.80

## 1,2,2-TRIMETHYLBOROPROPYL BORATE

CA 94.07716ORGAN.LIQUIDKNO D 0.8410 NO 357.0 04444444 T -0.  
C 18 H 39 B 1 O 3  
Mw 314.33 MI 57.52 MA 0.0927 MD 6.29 EM 30.31 GR 4.88

## TRI-N-CYCLOHEXYLTRI-B-ARIMONOBORAZOLE

CA 94.44260ORGAN. UNKNOWN D 0.9583 NO3720.0 04444444 T -0.  
C 18 H 39 B 3 N 6  
Mw 372.02 MI 62.41 MA 0.0874 MD 5.42 EM 39.56 GR 5.50

A 290

## TRIMETHYLBORANE BIS(DIBUTYLBORINE)

CA 94.17888ORGAN.LIQUIDICAL D 0.7636 NO3719.0 04144444 T -0.  
C 18 H 36 B 2  
Mw 274.13 MI 52.52 MA 0.0881 MD 6.04 EM 29.49 GR 4.95

## 2,2-1,1,2-TRIMETHYLBOROPROPYL-1,1,2,2-DIOXABORANANE

CA 94.45810ORGAN. UNKNOWN D 1.0000 NO1511.0 04444444 T -0.  
C 18 H 36 B 2 O 2  
Mw 370.13 MI 58.46 MA 0.0951 MD 5.86 EM 29.50 GR 4.80

## 2,2-PRIME-(1,1,3)-TRIMETHYLBOROPROPYL-1,1,2,2-DIOXABORANANE

CA 94.15067ORGAN.LIQUIDEST D 1.0000 NO1512.0 04444444 T -0.  
C 18 H 36 B 2 O 2  
Mw 370.13 MI 58.46 MA 0.0951 MD 5.86 EM 29.50 GR 4.80

## 2-METHYL-2,4-PENANEDICOL BORATE

CA 94.14254ORGAN. UNKNOWN D 0.8910 NO4410.0 04444444 T -0.  
C 18 H 36 B 2 U 6  
Mw 370.13 MI 58.46 MA 0.0868 MD 5.22 EM 29.50 GR 4.28

## 1,3,5-TRICYCLOHEXYLBORAZINE

CA 94.11974ORGAN. SOLIDEST D 1.0000 NO1513.0 04444444 T 98.50  
C 18 H 36 B 3 N 3  
Mw 326.97 MI 56.70 MA 0.1045 MD 6.63 EM 34.12 GR 6.29

## OCTADECYL BORATE

CA 94.80100ORGAN. UNKNOWN D 0.8300 NO1514.0 04444444 T -0.  
C 18 H 37 B 1 O 2  
Mw 296.31 MI 54.53 MA 0.0920 MD 6.24 EM 28.84 GR 4.87

## 1,5-DIMETHOXY-1,5-DIBOROCYCLOOCTANE

CA 94.12670ORGAN.LIQUIDKNO D 0.8740 NO 354.0 04444444 T -0.  
C 18 H 38 B 2 O 2  
Mw 304.14 MI 56.50 MA 0.0965 MD 6.49 EM 30.96 GR 5.29

## TRIMETHYLBORINE

CA 94.06080ORGAN.LIQUIDEST D 0.7700 NO1516.0 04444444 T -0.  
C 18 H 39 B 1  
Mw 286.33 MI 54.55 MA 0.0950 MD 6.79 EM 30.30 GR 5.28

## TRIS(1-METHYLPENTYL)BORINE

CA 94.05810ORGAN. UNKNOWN D 0.7700 NO1517.0 04444444 T -0.  
C 18 H 39 B 1  
Mw 286.33 MI 54.55 MA 0.0950 MD 6.79 EM 30.30 GR 5.28

## MONO-N-TRICHLORIDE-TRIMETHYLBORANE

CA 94.17888ORGAN.LIQUIDICAL D 0.9956 NO4493.0 04444444 T -0.  
C 18 H 39 B 1 Cl 3 N 1  
Mw 386.71 MI 59.22 MA 0.0918 MD 6.05 EM 614.72 GR 45.13

A 292

## TRIMETHYLBOROXINE

CA 94.14527ORGAN.LIQUIDKNO D 0.8654 NO 358.0 04444444 T -0.  
C 18 H 39 B 3 O 3  
Mw 335.47 MI 59.46 MA 0.0923 MD 6.05 EM 33.04 GR 5.11

## 1,1-DIMETHYLBOROPROPYL-1,1,2,2-DIBUTYLBORANE

CA 94.24180ORGAN.LIQUIDKNO D 0.8266 NO 359.0 04144411 T -0.  
C 18 H 40 B 2 O 2  
Mw 310.16 MI 58.50 MA 0.0939 MD 6.42 EM 32.43 GR 5.21

## 1,2-BIS(DIBUTYLBORYL)ETHANE

CA 94.13100ORGAN. UNKNOWN D 0.8300 NO1524.0 04444444 T -0.  
C 18 H 40 B 2 O 2  
Mw 310.16 MI 58.50 MA 0.0943 MD 6.45 EM 32.43 GR 5.23

## ETHYLENE BISTRIS(DIBUTYL)BORATE

CA 94.10510ORGAN. UNKNOWN D 0.9200 NO1525.0 04444444 T -0.  
C 18 H 40 B 2 O 6  
Mw 374.16 MI 62.46 MA 0.0925 MD 5.92 EM 32.44 GR 4.80

## TRIS(DIBUTYL)ETHYLENE DIBORATE

CA 94.06720ORGAN.LIQUIDKNO D 0.9222 NO 522.0 04444444 T -0.  
C 18 H 40 B 2 O 6  
Mw 374.16 MI 62.46 MA 0.0927 MD 5.94 EM 32.44 GR 4.82

## ALUMINUM BOROHYDROXIDE-TRISALUMINUM DIMETHYLATE DIPROPYLATE

CA 94.21800ORGAN. UNKNOWN D 1.1896 NO3721.0 04444444 T -0.  
C 18 H 42 Al 4 B 3 O 12  
Mw 590.91 MI 76.61 MA 0.0929 MD 5.09 EM 43.29 GR 5.25

## TRI-FERT-BUTYLBORINE-TRIMETHYLBORANE

CA 94.21800ORGAN. UNKNOWN D 0.7900 NO1526.0 04444444 T -0.  
C 18 H 42 B 1 N 1  
Mw 286.36 MI 58.62 MA 0.0984 MD 7.05 EM 33.58 GR 5.64

## 1,3,5-TRISOPROPYL-2,4,6-TRISOPROPYLBORAZOLE

CA 94.24401ORGAN.LIQUIDICAL D 0.7858 NO3722.0 04444444 T -0.  
C 18 H 42 B 3 N 3  
Mw 333.02 MI 62.10 MA 0.0891 MD 5.97 EM 38.52 GR 5.48

## 2,4,6-TRISUBSTITUTED-1,3,5-TRIMETHYLBORAZINE

CA 94.14110ORGAN.LIQUIDKNO D 0.9350 NO 513.0 04444444 T -0.  
C 18 H 42 B 3 N 3 O 3  
Mw 381.02 MI 65.67 MA 0.0971 MD 6.21 EM 38.53 GR 5.69

## ETHYLENE BIS(DIETHYLBORANINO)BORANATE

CA 94.17750ORGAN.LIQUIDICAL D 0.7991 NO3723.0 04444444 T -0.  
C 18 H 44 B 2 N 4 U 2  
Mw 370.22 MI 66.78 MA 0.0964 MD 5.69 EM 39.68 GR 5.13

A 293

## BIS(DIMETHYLAMINO)TETRAMETHYLENE-HYDROXYBORON(DIMETHYL-AMINO)TETRAMETHYLENE BORONATE

AD261. 2310ORGAN.UNKMONCAL D 0.8394 NO4496.0 04404444 T -0.  
C 18 M 44 B 3 N 3 O 4  
MW 399.03 MI 88.66 MA 0.0870 MD 5.58 EM 40.00 GR 5.07

## TRIS(THIETHYLSILYL)BORONATE

CA 34. 2400ORGAN.LIQUIDEST D 0.9962 NO 360.0 04444416 T -0.  
C 18 M 45 B 1 O 381 3  
MW 404.03 MI 84.33 MA 0.0891 MD 6.23 EM 37.05 GR 5.13

## TRIS(DIMETHYL)PROPYLSILYL(DIMETHYL)BORONATE

CA 33. 1980ORGAN.LIQUIDEST D 0.8200 NO1527.0 04144444 T -0.  
C 18 M 45 B 1 O 381 3  
MW 356.05 MI 84.33 MA 0.0891 MD 6.23 EM 37.05 GR 5.13

## TRIS(1-(TRIMETHYLSILYL)PROPYL)BORONATE

CA 33. 2160ORGAN.LIQUIDEST D 0.6222 NO 521.0 04444444 T -0.  
C 18 M 45 B 1 O 381 3  
MW 356.05 MI 84.33 MA 0.0891 MD 6.23 EM 37.05 GR 5.14

## TRIS(1-(TRIMETHYLSILYL)BORONATE

GM 13. 1850ORGAN.LIQUIDEST D 0.8749 NO3724.0 04444444 T -0.  
C 18 M 45 B 1 O 381 3  
MW 404.03 MI 87.30 MA 0.0882 MD 5.89 EM 37.05 GR 4.85

## TRIS-B-(DIETHYLAMINO)-TRI-M-ETHYLBORAZINE

CA 34. 1290ORGAN.UNKMONCAL D 0.9300 NO1748.0 04444444 T -0.  
C 18 M 45 B 3 N 3  
MW 336.04 MI 85.70 MA 0.1099 MD 7.50 EM 40.73 GR 6.79

## 1,3,5-TRISOPROPYL-2,4,6-TRISOPROPYLAminoBORAZINE

CA 34. 6370ORGAN.UNKMONCAL D 0.9300 NO1528.0 04444444 T -0.  
C 18 M 45 B 3 N 3  
MW 378.07 MI 88.91 MA 0.1021 MD 8.67 EM 43.96 GR 6.91

## TRIS(THIETHYLSILOXY)BORONATE

CA 33. 13040ORGAN.UNKMONCAL D 0.9900 NO1529.0 04444444 T -0.  
C 18 M 45 B 3 O 481 3  
MW 474.29 MI 72.21 MA 0.0908 MD 5.66 EM 39.84 GR 5.01

## B-TRIS-1-ETHYLDIMETHYLSILYL(METHYL)-M-TRIMETHYLBORAZINE

AD230. 7040ORGAN.UNKMONCAL D 0.8977 NO4233.0 04444444 T -0.  
C 18 M 48 B 3 N 381 3  
MW 423.34 MI 82.40 MA 0.0926 MD 6.13 EM 45.27 GR 5.78

## TRIS(DIMETHYLPHOSPHINE)-DIETHYLBORAZINE

CA 34. 9740ORGAN.UNKMONCAL D 0.8813 NO3717.0 04444444 T -0.  
C 18 M 48 B 3 P 3  
MW 380.07 MI 69.70 MA 0.0926 MD 6.55 EM 45.10 GR 6.15

A 295

## BORON TRIFLUORIDE-TRIPHENYLMETHYL

CA 50. 5590ORGAN. SOLIDICAL D 1.1817 NO3734.0 04444444 T 62.50  
C 19 M 15 B 3 F 3  
MW 316.15 MI 39.23 MA 0.0806 MD 3.43 EM 12.93 GR 2.76

## TRIPHENYLMETHYLBORONATE-TRIFLUORIDE

GM 13. 1880ORGAN. SOLIDICAL D 1.1926 NO3735.0 04444444 T 196.00  
C 19 M 15 B 3 F 4  
MW 330.15 MI 38.52 MA 0.0795 MD 3.26 EM 13.00 GR 2.85

## POTASSIUM CYANODIPHENYLBORATE

CA 34. 2670ORGAN.UNKMONCAL D 1.2522 NO3736.0 04444444 T -0.  
C 19 M 15 B 1 N 1  
MW 307.26 MI 35.97 MA 0.0834 MD 3.68 EM 16.05 GR 8.85

## SODIUM CYANODIPHENYLBORATE

CA 34. 2670ORGAN.UNKMONCAL D 1.2763 NO3737.0 04444444 T -0.  
C 19 M 15 B 1 N 1  
MW 291.15 MI 33.64 MA 0.0890 MD 3.97 EM 17.28 GR 4.68

## (PARA-CHLOROPHENYL)PHENYL-ORHO-TOLYLBORANE

CA 31. 19440ORGAN. SOLIDEST D 1.1600 NO1554.0 04444444 T -0.  
C 19 M 16 B 1 CL 1  
MW 290.16 MI 33.56 MA 0.0807 MD 3.85 EM 207.89 GR 49.98

## ETHYLDIPHENYLBORINE-PYRIDINE

CA 34. 4390ORGAN. SOLIDICAL D 1.0893 NO3738.0 04444444 T 150.00  
C 19 M 16 B 1 N 1  
MW 269.16 MI 33.43 MA 0.0817 MD 3.89 EM 14.52 GR 3.53

## DIPHENYL-ORHO-TOLYLBORANE

CA 31. 19440ORGAN. SOLIDEST D 1.0800 NO1555.0 04444444 T -0.  
C 19 M 17 B 1  
MW 256.16 MI 33.36 MA 0.0847 MD 4.32 EM 14.17 GR 3.60

## DIPHENYL-PARA-TOLYLBORINE

CA 32. 3680ORGAN.UNKMONCAL D 1.0300 NO1556.0 04444444 T -0.  
C 19 M 17 B 1  
MW 256.16 MI 33.36 MA 0.0808 MD 4.12 EM 14.17 GR 3.43

## 2,2,2-TRIFLUOROETHYL DIPHENYLBORINATE-PYRIDINE

CA 32. 20003ORGAN.UNKMONCAL D 1.1040 NO3739.0 04444444 T -0.  
C 19 M 17 B 1 F 3 N 1 O 1  
MW 343.17 MI 39.29 MA 0.0761 MD 3.29 EM 15.48 GR 3.00

## POTASSIUM DIPHENYL-ORHO-TOLYLBORATE

CA 31. 18740ORGAN. SOLIDEST D 1.0700 NO1529.0 04444444 T -0.  
C 19 M 17 B 1 K 1  
MW 295.26 MI 34.90 MA 0.0762 MD 3.71 EM 36.43 GR 7.95

A 296

## TRIMERIC DIISOPROPYLOXOBORPHOSPHORINE

CA 34. 4760ORGAN.UNKMONCAL D 0.8813 NO3725.0 04444444 T -0.  
C 18 M 48 B 3 P 3  
MW 389.97 MI 89.48 MA 0.0946 MD 6.33 EM 43.16 GR 6.15

## 2,2,4,4,8,8,10,10-OCTAMETHYL-5-(PENTAMETHYLOXISILOXY)METHYL-3,9-D

10H-2,4,8,10-12TETRAISILOXO-BORANOCANE  
CA 32. 14053ORGAN.LIQUIDICAL D 0.9801 NO3726.0 04444444 T -0.  
C 18 M 51 B 1 O 381 6  
MW 494.97 MI 77.08 MA 0.0919 MD 6.08 EM 43.80 GR 5.22

## TRIS(BUTYL)DIMETHYLAmino(DIHYDROXY)BORON

AD261. 2310ORGAN.UNKMONCAL D 0.8425 NO4494.0 04444444 T -0.  
C 18 M 51 B 3 N 3 O 6  
MW 436.09 MI 77.04 MA 0.0899 MD 5.91 EM 45.14 GR 5.23

## 9-PHENYLAANTHRENECARBONIUM FLUOBORATE

CA 32. 18180ORGAN.UNKMONCAL D 1.2870 NO3727.0 04444444 T -0.  
C 19 M 13 B 1 F 4 O 1  
MW 346.13 MI 55.51 MA 0.0800 MD 2.93 EM 11.94 GR 2.60

## 4-PHENYL-2,6-DI-2-THIENYL-PYRYLIUM FLUOBORATE

CA 33. 12280ORGAN.UNKMONCAL D 1.3748 NO3728.0 04444444 T -0.  
C 19 M 13 B 1 F 4 O 1 S 2  
MW 408.25 MI 38.11 MA 0.0773 MD 2.64 EM 13.05 GR 2.65

## BENZENE-BORONIC ACID-CYCLOC ESTER WITH PYROGALLOL-BENZOATE

CA 32. 18280ORGAN.UNKMONCAL D 1.2734 NO3729.0 04444444 T -0.  
C 19 M 13 B 1 O 4  
MW 316.13 MI 33.32 MA 0.0808 MD 3.15 EM 11.25 GR 2.73

## ORHO-DIPHENYL CARBAMOYL-BENZENE-DIAZONIUM FLUOBORATE

CA 32. 19660ORGAN.UNKMONCAL D 1.2014 NO3730.0 04444444 T -0.  
C 19 M 14 B 1 F 4 N 3 O 1  
MW 387.16 MI 59.72 MA 0.0742 MD 2.62 EM 15.51 GR 2.90

## BORON TRIFLUORIDE-CHLOROTRIPHENYLMETHANE

CA 50. 5590ORGAN. SOLIDICAL D 1.2353 NO3731.0 04444444 T 75.00  
C 19 M 15 B 1 CL 1 F 3  
MW 366.61 MI 36.43 MA 0.0762 MD 3.22 EM 207.37 GR 44.92

## BORON TRICHLORIDE-FLUOROTRIPHENYLMETHANE

GM 13. 2020ORGAN.UNKMONCAL D 1.3175 NO3732.0 04444444 T -0.  
C 19 M 15 B 1 CL 3 F 1  
MW 379.52 MI 36.25 MA 0.0758 MD 3.14 EM 596.12 GR 124.65

## BORON TRICHLORIDE-CHLOROTRIPHENYLMETHANE

GM 13. 2020ORGAN.UNKMONCAL D 1.3570 NO3733.0 04444444 T -0.  
C 19 M 15 B 1 CL 3  
MW 395.98 MI 36.16 MA 0.0746 MD 3.10 EM 790.49 GR 163.17

A 296

## LITHIUM METHYL TRIPHENYLBORATE

CA 44. 1550ORGAN. SOLIDICAL D 1.1292 NO3740.0 04444444 T -0.  
C 19 M 18 B 1 LI 1  
MW 264.11 MI 35.37 MA 0.0911 MD 4.64 EM 14.99 GR 3.86

## 2-HYDROXYETHYL-PYRROLIDINE DIPHENYLBORONATE

CA 44. 3820ORGAN. SOLIDICAL D 1.0724 NO3741.0 04444444 T 156.50  
C 19 M 18 B 1 N 1 O 5  
MW 351.18 MI 40.38 MA 0.0743 MD 3.31 EM 15.99 GR 2.94

## DIANILINO-PARA-TOLYLBORANE

CA 34. 8680ORGAN. SOLIDEST D 1.1000 NO1557.0 04444444 T 101.00  
C 19 M 19 B 1 N 2  
MW 286.20 MI 37.50 MA 0.0808 MD 4.40 EM 17.80 GR 4.12

## ORHO-TOLYLDIPHENYLBORINE-AMMONIA

CA 31. 18740ORGAN.UNKMONCAL D 1.1000 NO1558.0 04444444 T -0.  
C 19 M 20 B 1 N 1  
MW 273.20 MI 37.43 MA 0.0908 MD 4.85 EM 17.45 GR 4.23

## DIPHENYL-PARA-TOLYLBORINE-AMMONIA

CA 32. 3680ORGAN.UNKMONCAL D 1.1000 NO1559.0 04444444 T -0.  
C 19 M 20 B 1 N 1  
MW 273.20 MI 37.43 MA 0.0908 MD 4.85 EM 17.45 GR 4.23

## DIPARATOLYLBORINE-PYRIDINE

CA 33. 4270ORGAN. SOLIDEST D 1.1000 NO1560.0 04444444 T 111.50  
C 19 M 20 B 1 N 1  
MW 273.20 MI 37.43 MA 0.0908 MD 4.85 EM 17.45 GR 4.23

## ETHYLDIPHENYLBORINE-PYRIDINE

CA 31. 4390ORGAN. SOLIDICAL D 0.9413 NO3742.0 04444444 T 128.00  
C 19 M 20 B 1 N 1  
MW 273.20 MI 37.43 MA 0.0777 MD 4.15 EM 17.45 GR 3.62

## ETHYL DIPHENYLBORINATE-PYRIDINE

CA 32. 20003ORGAN.UNKMONCAL D 1.0400 NO1561.0 04444444 T -0.  
C 19 M 20 B 1 N 1 O 1  
MW 289.20 MI 38.42 MA 0.0832 MD 4.33 EM 17.46 GR 3.78

## BIS(PARAMETHOXY)PHENYLBORINE

CA 33. 4270ORGAN. SOLIDEST D 1.1600 NO1562.0 04444444 T 109.50  
C 19 M 20 B 1 N 1 O 2  
MW 305.20 MI 39.41 MA 0.0902 MD 4.58 EM 17.46 GR 4.00

## TRIPHENYLPHOSPHINE-METHYLENE-BORON TRIMETHYL

CA 33. 6120ORGAN. SOLIDICAL D 1.0966 NO3743.0 04444444 T 191.50  
C 19 M 20 B 1 P 1  
MW 290.16 MI 37.64 MA 0.0788 MD 4.18 EM 18.20 GR 3.80

A 297

2-METHYL-1,3,5-TRIPHENYLBORAZINE  
CA 33.1611000000, SOLIDEST D 1.1300 NO1563.0 04444444 T 141.00  
C 19 M 20 B 3 N 3  
MW 322.85 MI 61.91 NA 0.0891 MD 4.29 EM 22.40 GR 4.81

2-AMINO-1-METHYLETHYL BIS(PARA-VINYLPHENYL)BORINATE  
CA 54.1411000000, SOLIDEST D 1.0800 NO1564.0 04444444 T 106.00  
C 19 M 22 B 1 N 1 O 1  
MW 291.21 MI 40.42 NA 0.0903 MD 4.91 EM 18.92 GR 4.23

PHENYL DIISOBUTYLAMMONIUM PYRIDINE  
CA 52.2000300000, UNKNOWEST D 0.9400 NO1565.0 04444444 T -0.  
C 14 M 28 B 1 N 1 O 1  
MW 297.26 MI 46.42 NA 0.0844 MU 5.33 EM 23.33 GR 4.44

TRIETHYLFLUOROBORATE-PYRIDINE  
CA 54.2049000000, UNKNOWEST D 1.0800 NO3746.0 04444444 T -0.  
C 19 M 28 B 5 N 1 O 10  
MW 484.54 MI 59.21 NA 0.0799 MD 3.78 EM 28.91 GR 3.90

TRIPHENYLPHOSPHONIUM METHYLTRIDECANYDIODECARBOATE  
CA 53.6124000000, SOLIDCAL D 1.1187 NO3749.0 04144444 T 128.00  
C 19 M 31 B 10 P 1  
MW 398.63 MI 57.42 NA 0.0971 MD 5.24 EM 38.79 GR 6.56

BENZYLTRISUBUTYLAMMONIUM PENTABORATE  
CA 54.2069000000, UNKNOWEST D 1.0000 NO3746.0 04444444 T -0.  
C 14 M 38 B 5 N 1 O 10  
MW 444.82 MI 69.21 NA 0.0843 MD 4.63 EM 36.24 GR 4.41

N-TRIS(2-AMINOETHYL)BORATE-HYDROCHLORIC ACID-D-39-CHLOROFORM  
CA 47.2129000000, SOLIDCAL D 1.2701 NO3805.0 04144444 T 145.00  
C 19 M 40 B 3CL 6 N 3 O 9  
MW 699.75 MI 77.62 NA 0.0822 MD 4.24 EM1203.76 GR 127.46

CHLORODI-1-NAPHTHYLBORINE  
CA 50.2119440000, UNKNOWEST D 1.0300 NO1530.0 04444444 T -0.  
C 20 M 14 B 1CL 1  
MW 300.61 MI 32.37 NA 0.0681 MD 2.95 EM 206.44 GR 63.43

LITHIUM DI-1-NAPHTHYLBORINATE  
CA 54.1096700000, SOLIDCAL D 1.3729 NO3747.0 04444444 T -0.  
C 20 M 14 B 1CL 1 O 1  
MW 286.07 MI 33.17 NA 0.0952 MD 4.02 EM 12.07 GR 3.46

DI-1-NAPHTHYLBORINIC ACID  
CA 53.1310700000, SOLIDEST D 1.1800 NO1531.0 04444444 T 114.00  
C 20 M 14 B 1 O 1  
MW 282.16 MI 33.16 NA 0.0835 MD 3.78 EM 12.72 GR 3.21

A 299

ALPHA-METHYLBENZYL DIPHENYLBORINATE  
CA 57.2000000000, UNKNOWEST D 1.1000 NO1536.0 04444444 T -0.  
C 20 M 14 B 1 O 1  
MW 286.14 MI 37.18 NA 0.0960 MU 4.40 EM 15.88 GR 3.63

DIORTHOTOLYL PHENYLBORONATE  
CA 52.2920000000, LIQUIDRM D 1.0200 NO 518.0 04444444 T -0.  
C 20 M 19 B 1 O 2  
MW 302.19 MI 38.15 NA 0.0776 MD 3.86 EM 15.66 GR 3.18

DIBENZYL PHENYLBORONATE  
CA 52.2920000000, LIQUIDRM D 1.1100 NO 517.0 04444444 T -0.  
C 20 M 19 B 1 O 2  
MW 302.19 MI 38.15 NA 0.0844 MD 4.20 EM 15.66 GR 3.67

PARA-DIOXANE-CHLORO-1-NAPHTHYLPHENYLBORINE  
CA 54.1096700000, SOLIDEST D 1.2500 NO1535.0 04444444 T 94.90  
C 20 M 20 B 1CL 1 O 2  
MW 318.86 MI 40.35 NA 0.0897 MD 4.45 EM 210.88 GR 64.82

ETHYLTRIPHENYLPHOSPHONIUM FLUOBORATE  
CA 52.1828600000, SOLIDCAL D 1.0944 NO3755.0 04444444 T 127.00  
C 20 M 20 B 1 P 4 P 1  
MW 378.17 MI 43.66 NA 0.0761 MD 3.49 EM 18.51 GR 3.23

TETRAKIS(2-METHYL-5-FURYL)BORON, K, SALT  
CA 53.1611100000, SOLIDCAL D 1.1806 NO3756.0 04444444 T -0.  
C 20 M 20 B 1 K 1 O 4  
MW 374.30 MI 42.67 NA 0.0797 MD 3.74 EM 38.66 GR 7.22

IN-ETHYLANILINDIOIPHENYLBORINE  
CA 54.8742000000, LIQUIDEST D 1.0800 NO1536.0 04444444 T -0.  
C 20 M 20 B 1 N 1  
MW 289.21 MI 38.24 NA 0.0872 MU 4.56 EM 17.47 GR 3.98

2-AMINOETHYL-2-BIPHENYLYL PHENYLBORINATE  
CA 54.8842000000, SOLIDEST D 1.0400 NO1537.0 04444444 T 175.00  
C 20 M 20 B 1 N 1 O 1  
MW 301.21 MI 34.23 NA 0.0816 MD 4.18 EM 17.47 GR 3.63

AMMONIUM DIHYDROXYBIS(1-NAPHTHYLBORATE  
CA 50.1119640000, SOLIDEST D 1.2600 NO1538.0 04444444 T 107.50  
C 20 M 20 B 1 N 1 O 2  
MW 317.21 MI 40.22 NA 0.0962 MD 4.79 EM 17.47 GR 4.18

TRIS(1-METHYL-2-FURYL)BORINE-PYRIDINE  
CA 53.1611100000, SOLIDCAL D 1.0146 NO3757.0 04444444 T 115.50  
C 20 M 20 B 1 N 1 O 3  
MW 333.21 MI 41.21 NA 0.0756 MD 3.67 EM 17.48 GR 3.21

A 298

2,4,6-TRIPHENYL-1,3,5-DIOXABOROLE  
CA 54.1970100000, SOLIDCAL D 1.1965 NO3748.0 04444444 T 112.50  
C 20 M 15 B 1 O 2  
MW 298.16 MI 34.15 NA 0.0825 MD 3.63 EM 12.73 GR 3.08

NITRON TETRAFLUOROBORATE  
CA 48.1079800000, SOLIDCAL D 1.1417 NO3749.0 04444444 T 228.80  
C 20 M 16 B 3 F 4 N 4  
MW 399.20 MI 42.61 NA 0.0734 MD 2.76 EM 18.07 GR 3.11

AMINODI-1-NAPHTHYLBORINE  
CA 54.1051200000, SOLIDEST D 1.1500 NO1532.0 04444444 T 113.50  
C 20 M 16 B 1 N 1  
MW 281.18 MI 34.24 NA 0.0844 MD 3.94 EM 14.54 GR 3.58

MESO-HYDROBENZYL BENZENEBOBORONATE  
CA 54.1970200000, SOLIDCAL D 1.1103 NO3750.0 04444444 T 92.50  
C 20 M 17 B 1 O 2  
MW 300.18 MI 36.15 NA 0.0806 MD 3.79 EM 14.19 GR 3.16

LITHIUM DIISOBUTORY DIPHENYLBORATE  
CA 48.1314200000, UNKNOWEST D 1.1982 NO3751.0 04444444 T -0.  
C 20 M 16 B 1 O 2  
MW 308.12 MI 38.16 NA 0.0894 MD 4.22 EM 15.00 GR 3.51

2-METHYL-ETHYNYLDIPHENYLBORINE-PYRIDINE  
CA 54.4398000000, SOLIDCAL D 1.0400 NO3752.0 04444444 T 170.00  
C 20 M 18 B 1 N 1  
MW 283.19 MI 38.24 NA 0.0802 MD 3.98 EM 16.00 GR 3.54

BORANE-BIS(NAPHTHYL)PHOSPHINE  
CA 54.1521800000, UNKNOWEST D 1.1104 NO2153.0 04444444 T -0.  
C 20 M 18 B 1 P 1  
MW 300.16 MI 36.50 NA 0.0813 MD 4.01 EM 16.75 GR 3.73

CHLOROPHENYL PARA-TOLYLBORINATE  
CA 54.4398000000, UNKNOWEST D 1.1063 NO4495.0 04444444 T -0.  
C 20 M 18 B 1 S 1  
MW 301.24 MI 36.67 NA 0.0807 MD 3.98 EM 15.68 GR 3.47

1,2-DI-1-NAPHTHYLDIOBORANE  
CA 54.1091000000, SOLIDCAL D 1.0699 NO3754.0 04444444 T 118.00  
C 20 M 18 B 2  
MW 282.00 MI 36.14 NA 0.0832 MD 4.14 EM 16.32 GR 3.76

PHENYL-ORTHO-TOLYL-PARA-TOLYLBORANE  
CA 51.1944000000, LIQUIDEST D 1.1900 NO1533.0 04444444 T -0.  
C 20 M 19 B 1  
MW 270.14 MI 36.17 NA 0.0927 MU 4.07 EM 15.66 GR 4.01

A 300

B-N BIS(PANATOLYLAMINO)PHENYLBORINE  
CA 54.1303900000, SOLIDCAL D 0.9419 NO3758.0 04444444 T 86.00  
C 20 M 21 B 1 N 2  
MW 300.22 MI 40.31 NA 0.0762 MD 3.97 EM 19.28 GR 3.64

ISOBUTYL 1-NAPHTHYLPHENYLBORINATE  
CA 54.1094600000, UNKNOWEST D 1.0490 NO 361.0 04444444 T -0.  
C 20 M 21 B 1 O 1  
MW 286.21 MI 39.16 NA 0.0899 MD 4.82 EM 17.13 GR 3.93

TRIPHENYLBORINE-METHYL SULFIDE  
CA 52.4663000000, SOLIDEST D 1.1200 NO1539.0 04444444 T 180.00  
C 20 M 21 B 1 S 1  
MW 304.27 MI 39.67 NA 0.0875 MD 4.66 EM 17.88 GR 3.97

PROPYL DIPHENYLBORINATE-PYRIDINE  
CA 52.2000300000, SOLIDEST D 1.0200 NO1540.0 04444444 T -0.  
C 20 M 22 B 1 N 1 O 1  
MW 303.22 MI 41.23 NA 0.0835 MD 4.66 EM 18.94 GR 3.86

12-AMINDISOBUTORY-1-NAPHTHYL-PHENYLBORANE  
CA 50.5551000000, SOLIDEST D 0.9200 NO1541.0 04444444 T 199.50  
C 20 M 22 B 1 N 1 O 1  
MW 303.22 MI 41.23 NA 0.0753 MD 4.02 EM 18.94 GR 3.46

TRIPHENYLBORINE-ETHYLAMINE  
CA 50.1642000000, SOLIDCAL D 0.9591 NO3759.0 04444444 T -0.  
C 20 M 22 B 1 N 1 O 3  
MW 313.22 MI 43.21 NA 0.0745 MD 3.79 EM 18.94 GR 3.26

TRIS(PARAHYDROXYPHENOXYPHENYL)BORINE-ETHYLAMINE  
CA 54.1841000000, SOLIDCAL D 0.9966 NO3760.0 04444444 T 246.00  
C 20 M 22 B 1 N 1 O 3  
MW 383.22 MI 46.18 NA 0.0723 MD 3.45 EM 18.95 GR 2.97

BORANE-TRIPHENYLPHOSPHONIUM ETHIDE  
CA 53.6124000000, SOLIDCAL D 0.9733 NO3761.0 04444444 T 171.50  
C 20 M 22 B 1 P 1  
MW 304.19 MI 40.50 NA 0.0781 MD 4.24 EM 19.68 GR 3.79

2,4-DIMETHYL-1,3,5-TRIPHENYLBORAZINE  
CA 53.1611200000, UNKNOWEST D 1.1500 NO1542.0 04444444 T -0.  
C 20 M 22 B 3 N 3  
MW 336.88 MI 44.32 NA 0.0911 MD 4.52 EM 23.88 GR 4.91

TRIPHENYLBORANE-ETHYLENEDIAMINE  
CA 53.9198000000, SOLIDCAL D 1.1052 NO3762.0 04444444 T 154.50  
C 20 M 23 B 1 N 2 O 3  
MW 371.88 MI 47.22 NA 0.0845 MD 4.12 EM 23.54 GR 4.21

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A 305

8-HYDROXYQUINOLINIUM SALT OF DIPHENYLACETIC ACID  
CA 44.3828ORGAN. SOLIDICAL D 1.1935 N03780.0 04444444 T 203.00  
C 21 M 16 B 1 N 1 O 3  
MW 373.19 MI 40.00 NA 0.0771 MD 3.08 EM 14.36 GR 2.80

BORON TRICHLORIDE-METHYLIDI-NAPHTHYLAMINE  
NACH 433228ORGAN. LIQUIDICAL D 1.2646 N03781.0 04144444 T -0.  
C 21 M 17 B 1 CL 3 N 1  
MW 400.37 MI 39.65 NA 0.0754 MD 3.23 EM 19.82 GR 113.84

METHYL DI-NAPHTHYLBORINATE  
CA 54.10967ORGAN. SOLIDEST D 1.2000 N01568.0 04444444 T 102.00  
C 21 M 17 B 1 O 1  
MW 286.19 MI 35.97 NA 0.0876 MD 4.15 EM 14.21 GR 3.47

11-AZULENYLMETHYLENEIDIMETHYLBENZOLIZIUM FLUOBORATE  
CA 53.17514ORGAN. SOLIDICAL D 1.1262 N03782.0 04444444 T -0.  
C 21 M 18 B 1 F 4 N 1  
MW 371.20 MI 42.21 NA 0.0771 MD 3.29 EM 16.32 GR 2.98

DIDENZYLBENZYLIDENEAMMONIUM FLUOBORATE  
CA 52.20127ORGAN. SOLIDICAL D 1.0641 N03783.0 04444444 T -0.  
C 21 M 20 B 1 F 4 N 1  
MW 373.22 MI 44.21 NA 0.0789 MD 3.43 EM 17.78 GR 3.05

11-DIPHENYLBORONYL-2-THIOETHYL-ACETYLENE-PYRIDINE  
CA 55.4398ORGAN. LIQUIDICAL D 0.8478 N03784.0 04444444 T 156.00  
C 21 M 20 B 1 S 1  
MW 329.28 MI 40.35 NA 0.0626 MD 3.26 EM 18.89 GR 2.83

TRIBENZYLBORINE  
CA 53.9149ORGAN. UNKNOWNEST D 1.0800 N01569.0 04144444 T -0.  
C 21 M 21 B 1  
MW 284.22 MI 38.98 NA 0.0892 MD 4.81 EM 17.14 GR 3.92

TRI-ORTHO-TOLYLBORANE  
CA 50.13731ORGAN. SOLIDEST D 1.0800 N01570.0 04444444 T 68.00  
C 21 M 21 B 1  
MW 284.22 MI 38.98 NA 0.0892 MD 4.81 EM 17.14 GR 3.92

TRI-META-TOLYLBORANE  
CA 50.16228ORGAN. UNKNOWNEST D 1.0800 N01571.0 04444444 T -0.  
C 21 M 21 B 1  
MW 284.22 MI 38.98 NA 0.0892 MD 4.81 EM 17.14 GR 3.92

TRI-PARA-TOLYLBORANE  
CA 50.13731ORGAN. SOLIDEST D 1.0800 N01572.0 04444444 T 143.00  
C 21 M 21 B 1  
MW 284.22 MI 38.98 NA 0.0892 MD 4.81 EM 17.14 GR 3.92

A 307

TRIS(BENZYLAMINO)BORANE  
1,3,5-TRI-PARA-ANISYL-2,4,6-TRICHLOROBORAZINE  
CA 53.15346ORGAN. UNKNOWNICAL D 1.0493 N03791.0 04444444 T -0.  
C 21 M 21 B 1 O 3  
MW 380.22 MI 44.92 NA 0.0747 MD 3.49 EM 17.15 GR 2.85

ORTHO-ANISYL BORATE  
CA 49.11598ORGAN. SOLIDICAL D 1.0493 N03792.0 04444444 T 101.00  
C 21 M 21 B 1 O 3  
MW 380.22 MI 44.92 NA 0.0747 MD 3.49 EM 17.15 GR 2.85

2,4,6-TRICHLORO-1,3,5-TRI-PARA-TOLYLBORAZINE  
CA 54.11974ORGAN. UNKNOWNICAL D 1.1445 N03793.0 04444444 T -0.  
C 21 M 21 B 1 CL 3 N 3  
MW 494.29 MI 47.73 NA 0.0724 MD 3.19 EM 808.50 GR 92.05

3,3,5-TRI-PARA-ANISYL-2,4,6-TRICHLOROBORAZINE  
CA 54.11974ORGAN. UNKNOWNICAL D 1.1624 N03794.0 04444444 T -0.  
C 21 M 21 B 1 CL 3 N 3  
MW 502.29 MI 80.70 NA 0.0707 MD 2.93 EM 808.50 GR 84.59

TRIPARATOLYLBORONIN  
CA 53.3670ORGAN. SOLIDEST D 1.1700 N01577.0 04444444 T 238.00  
C 21 M 21 B 3 O 3  
MW 393.88 MI 43.89 NA 0.0874 MD 4.18 EM 19.93 GR 3.97

TRIS(ORTHO-TOLYLBORONINE  
N0155. 496ORGAN. SOLIDICAL D 1.0339 N04498.0 04404440 T -0.  
C 21 M 21 B 3 O 3  
MW 351.86 MI 43.89 NA 0.0787 MD 3.77 EM 19.93 GR 3.98

PYRIDINIUM TETRA-1-PYRANYLBORATE  
CA 50.11338ORGAN. SOLIDICAL D 0.9430 N03795.0 04444441 T -0.  
C 21 M 22 B 1 N 5  
MW 353.27 MI 45.33 NA 0.0725 MD 3.52 EM 23.27 GR 3.72

DIPHENYL BUTYLBORONATE-PYRIDINE  
CA 57.20003ORGAN. UNKNOWNEST D 1.1600 N01578.0 04444444 T -0.  
C 21 M 24 B 1 N 1 O 2  
MW 333.23 MI 49.03 NA 0.0944 MD 5.03 EM 20.43 GR 4.28

AKNOMIA-TRIS(PARA-ANISYL)BORANE  
N0156. 537ORGAN. UNKNOWNICAL D 1.0841 N04411.0 04444444 T -0.  
C 21 M 24 B 1 N 1 O 3  
MW 349.25 MI 46.02 NA 0.0845 MD 4.40 EM 20.43 GR 3.75

FRISIN-METHYLBENZYLAMINOBORINE  
CA 53.331ORGAN. SOLIDEST D 1.1400 N01579.0 04444444 T 210.00  
C 21 M 24 B 1 N 3  
MW 329.27 MI 45.19 NA 0.0942 MD 5.01 EM 22.58 GR 4.71

A 306

BORON TRICHLORIDE-TRIMETHYLBENZYLAMINE  
NACH 433228ORGAN. SOLIDICAL D 1.1271 N03785.0 04014444 T 236.00  
C 21 M 21 B 1 CL 3 N 1  
MW 404.60 MI 43.65 NA 0.0732 MD 3.52 EM 801.56 GR 100.94

BORON TRICHLORIDE-TRIMETATOLYL PHOSPHATE  
CA 54.12869ORGAN. LIQUIDICAL D 1.2030 N03786.0 04444440 T -0.  
C 21 M 21 B 1 CL 3 O 4 P 1  
MW 485.134 MI 47.87 NA 0.0714 MD 3.13 EM 402.31 GR 89.88

BORON TRIFLUORIDE-TRIMETATOLYL PHOSPHATE  
CA 54.12869ORGAN. LIQUIDICAL D 1.1116 N03787.0 04444444 T -0.  
C 21 M 21 B 1 F 3 O 4 P 1  
MW 436.19 MI 48.14 NA 0.0739 MD 3.22 EM 19.19 GR 2.95

BORON TRIFLUORIDE-TRIPARATOLYL PHOSPHATE  
CA 54.12869ORGAN. LIQUIDICAL D 1.1116 N03788.0 04444444 T -0.  
C 21 M 21 B 1 F 3 O 4 P 1  
MW 436.19 MI 48.14 NA 0.0739 MD 3.22 EM 19.19 GR 2.95

TRI-PARA-TOLYLBORONAMMONIUM FLUOBORATE  
CA 52.2180ORGAN. UNKNOWNICAL D 1.0358 N03789.0 04444444 T -0.  
C 21 M 21 B 1 F 4 N 1  
MW 374.23 MI 45.21 NA 0.0754 MD 3.50 EM 18.52 GR 3.09

2-TRIT-BUTYL-4,6-DIPHENYLPYRFLIUM TETRAFLUOBORATE  
CA 54.12023ORGAN. SOLIDICAL D 1.0504 N03790.0 04444446 T 254.50  
C 21 M 22 B 1 F 4 O 1  
MW 374.22 MI 49.13 NA 0.0759 MD 3.53 EM 17.44 GR 2.93

BENZYL BORATE  
CA 51.1877ORGAN. UNKNOWNEST D 1.1400 N01573.0 04444444 T -0.  
C 21 M 21 B 1 O 3  
MW 332.22 MI 41.95 NA 0.0887 MD 4.34 EM 17.15 GR 3.54

ORTHO-TOLYL BORATE  
NACH 439046ORGAN. UNKNOWNEST D 1.1400 N01574.0 04444444 T -0.  
C 21 M 21 B 1 O 3  
MW 332.22 MI 41.95 NA 0.0887 MD 4.34 EM 17.15 GR 3.54

PARA-TOLYL BORATE  
CA 49.11598ORGAN. SOLIDEST D 1.1400 N01575.0 04444444 T 142.00  
C 21 M 21 B 1 O 3  
MW 332.22 MI 41.95 NA 0.0887 MD 4.34 EM 17.15 GR 3.54

META-AND PARA TOLYL BORATE MIXTURE  
NACH 439046ORGAN. UNKNOWNEST D 1.1400 N01576.0 04444446 T -0.  
C 21 M 21 B 1 O 3  
MW 332.22 MI 41.95 NA 0.0887 MD 4.34 EM 17.15 GR 3.54

A 308

TRIS(BENZYLAMINO)BORINE  
CA 54.0578ORGAN. UNKNOWNEST D 1.1400 N01580.0 04444444 T -0.  
C 21 M 24 B 1 N 3  
MW 329.27 MI 45.19 NA 0.0942 MD 5.01 EM 22.58 GR 4.71

THIS TOLYL ANIMOBORATE  
GR 13. 241ORGAN. SOLIDEST D 1.1400 N01581.0 04444444 T 165.00  
C 21 M 24 B 1 N 3  
MW 329.27 MI 45.19 NA 0.0942 MD 5.01 EM 22.58 GR 4.71

1,3,5-TRI-PARA-TOLYLBORAZINE  
EEN 35. 670ORGAN. UNKNOWNEST D 1.1500 N01582.0 04444444 T -0.  
C 21 M 24 B 3 N 3  
MW 350.91 MI 47.13 NA 0.0980 MD 4.74 EM 25.36 GR 5.01

2,4,6-TRIMETHYL-1,3,5-TRIPHENYLBORAZINE  
CA 52.18465ORGAN. SOLIDEST D 1.1500 N01583.0 04014444 T 268.00  
C 21 M 24 B 3 N 3  
MW 350.91 MI 47.13 NA 0.0930 MD 4.74 EM 25.36 GR 5.01

2,4,6-TRIPHENYL-1,3,5-TRIMETHYLBORAZINE  
CA 53.16112ORGAN. SOLIDEST D 1.1500 N01584.0 04444444 T 270.00  
C 21 M 24 B 3 N 3  
MW 350.91 MI 47.13 NA 0.0930 MD 4.74 EM 25.36 GR 5.01

2-ETHYL-4-METHYL-1,3,5-TRIPHENYLBORAZINE  
CA 53.16112ORGAN. SOLIDEST D 1.1500 N01585.0 04444444 T 120.00  
C 21 M 24 B 3 N 3  
MW 350.91 MI 47.13 NA 0.0930 MD 4.74 EM 25.36 GR 5.01

2,4,6-TRI-PARA-TOLYLBORAZINE  
CA 54.0695ORGAN. SOLIDEST D 1.1500 N01586.0 04444444 T 170.00  
C 21 M 24 B 3 N 3  
MW 350.91 MI 47.13 NA 0.0930 MD 4.74 EM 25.36 GR 5.01

1,3,5-TRIMETHYL-2,4,6-TRIPHENYLBORAZINE  
CA 51.17445ORGAN. SOLIDEST D 1.1500 N01587.0 04444444 T -0.  
C 21 M 24 B 3 N 3  
MW 350.91 MI 47.13 NA 0.0930 MD 4.74 EM 25.36 GR 5.01

1,3,5-TRIMETHYL-2,4,6-TRIPHENYLBORAZINE  
CA 54. 263ORGAN. SOLIDEST D 1.2500 N01588.0 04444444 T 82.50  
C 21 M 24 B 3 N 3 O 3  
MW 398.91 MI 50.10 NA 0.0946 MD 4.53 EM 25.37 GR 4.79

1,3,5-TRIS(BENZYLAMINO)PHENYLBORAZINE  
CA 54.11974ORGAN. SOLIDEST D 1.2500 N01589.0 04444444 T 137.50  
C 21 M 24 B 3 N 3 O 3  
MW 398.91 MI 50.10 NA 0.0946 MD 4.53 EM 25.37 GR 4.79

A 309

SODIUM 9-FLUORO-11BETA-16ALPHA-17,21-TETRAHYDROXY-PREGNA-1,4-DIENE-3,20-DIONE CYCLIC B-17-BORATE  
CA 52,14728ORGAN, UNKNOWNCAL D 1.1150 NO3796.0 04444444 T -0.  
C 21 H 25 B 1 P 1 O 7  
MW 421.25 MI 52.41 MA 0.0784 HD 3.80 EM 21.95 GR 3.65

FLUORO-11BETA-16ALPHA-17,21-TETRAHYDROXY-CYCLOC 16,17-BORATE OF PRE  
ONA-1,4-DIENE-3,20-DIONE  
CA 52,14728ORGAN, UNKNOWNCAL D 1.0869 NO3797.0 04444444 T -0.  
C 21 H 26 B 1 P 1 O 7  
MW 420.26 MI 52.20 MA 0.0813 HD 4.05 EM 20.90 GR 3.26

SODIUM SALT OF FLUORO-11BETA-16ALPHA-17,21-TETRAHYDROXY-CYCLOC 16,17  
BORATE OF PREONA-1,4-DIENE-3,20-DIONE  
CA 52,14728ORGAN, UNKNOWNCAL D 1.0869 NO3798.0 04444444 T -0.  
C 21 H 26 B 1 P 1 O 7  
MW 420.26 MI 52.20 MA 0.0813 HD 4.05 EM 20.90 GR 3.26

SODIUM CYCLIC BORATE OF 9-FLUORO-16ALPHA-17-DIHYDROXY-CORTICOSTERON  
E  
CA 52,14728ORGAN, UNKNOWNCAL D 1.0701 NO3799.0 00000000 T -0.  
C 21 H 27 B 1 P 1 O 7  
MW 444.26 MI 54.41 MA 0.0789 HD 3.92 EM 25.32 GR 3.70

CYCLOC 16,17-BORATE OF 11BETA-16ALPHA-17,21-TETRAHYDROXY-PREGNA-1,4-  
DIENE-3,20-DIONE  
CA 52,14728ORGAN, UNKNOWNCAL D 1.0675 NO3800.0 04444444 T -0.  
C 21 H 27 B 1 P 1 O 7  
MW 402.27 MI 51.91 MA 0.0814 HD 4.23 EM 21.36 GR 3.38

TRI-N-(PARA-TOLYL)TRI-N-AMINOBORAZOLE  
CA 54, 4428ORGAN, UNKNOWNCAL D 0.9961 NO3801.0 04444444 T -0.  
C 21 H 27 B 3 N 4  
MW 395.95 MI 53.36 MA 0.0808 HD 4.09 EM 30.80 GR 4.67

CYCLOC 16,17-BORATE OF FLUORO-16ALPHA-17-DIHYDROXY-CORTICOSTERONE  
CA 52,14728ORGAN, SOLIDCAL D 1.0422 NO3802.0 04444444 T -0.  
C 21 H 28 B 1 P 1 O 7  
MW 422.27 MI 54.20 MA 0.0806 HD 4.16 EM 22.36 GR 3.32

SODIUM CYCLIC 16,17-BORATE OF FLUORO-16ALPHA-17-DIHYDROXY-CORTICOSTE  
RONE  
CA 52,14728ORGAN, UNKNOWNCAL D 1.0422 NO3803.0 04444444 T -0.  
C 21 H 28 B 1 P 1 O 7  
MW 422.27 MI 54.20 MA 0.0806 HD 4.16 EM 22.36 GR 3.32

CYCLOC 16,17-BORATE OF 16ALPHA-17-DIHYDROXY-CORTICOSTERONE  
CA 52,14728ORGAN, SOLIDCAL D 1.0043 NO3804.0 04444444 T -0.  
C 21 H 28 B 1 P 1 O 7  
MW 404.28 MI 55.91 MA 0.0807 HD 4.34 EM 23.02 GR 3.44

TRIMERIC PHENYLETHYLENETHYLPHOSPHINODODRINE  
CA 53,16028ORGAN, UNKNOWNCAL D 1.0701 NO3805.0 04444444 T -0.  
C 21 H 30 B 3 P 3  
MW 407.96 MI 53.91 MA 0.0847 HD 4.74 EM 32.00 GR 5.06

A 311

TRIS-B-(TRIS)TRIMINO-TRI-N-ETHYLBORAZINE  
CA 54,1248ORGAN, LIQUIDEST D 0.9800 NO1749.0 04444444 T -0.  
C 21 H 45 B 3 N 3  
MW 372.07 MI 58.13 MA 0.1081 HD 7.14 EM 40.77 GR 6.47

CYCLOC COPOLYMER OF MENAETHYLENETHYLPHOSPHINODIPROPYLBORINE AND HEXAME  
THYLENETHYLPHOSPHINODIPROPYLBORINE  
CA 54,19409ORGAN, UNKNOWNCAL D 1.0991 NO4152.0 04000410 T -0.  
C 21 H 46 B 2 P 2  
MW 382.19 MI 67.61 MA 0.1171 HD 7.97 EM 40.52 GR 7.02

1,3,5-TRIMETHYL-2,4,6-TRI-ISOPENTYLBORAZINE  
CA 53, 1209ORGAN, SOLIDEST D 0.8500 NO1595.0 04444444 T 44.00  
C 21 H 48 B 3 N 3  
MW 375.10 MI 71.13 MA 0.0971 HD 6.55 EM 42.98 GR 5.81

METHYLDIPROPYLSILICYL BORATE  
CA 54, 4110ORGAN, LIQUIDKNO D 0.8661 NO 310.0 04444444 T -0.  
C 21 H 51 B 1 O 351 3  
MW 446.73 MI 75.73 MA 0.0884 HD 5.96 EM 41.51 GR 4.85

2,4,6-TRIMETHYL-1,3,5-TRIMETHYLSILOPROPYLSILYLBORAZOLE  
AD252, 0940ORGAN, UNKNOWNCAL D 0.8419 NO4273.0 04444444 T -0.  
C 21 H 54 B 3 N 351 3  
MW 465.42 MI 80.91 MA 0.0882 HD 5.88 EM 49.72 GR 5.42

TRIS(ETHYLENETHYLPHOSPHINODIBORINE)  
CA 54, 9780ORGAN, UNKNOWNCAL D 0.8729 NO3807.0 04444444 T -0.  
C 21 H 54 B 3 P 3  
MW 432.05 MI 77.91 MA 0.0908 HD 6.57 EM 49.61 GR 6.04

2,2,4,4,10,10,12-OCTAMETHYL-7,12-PENTAMETHYLDISILOXANYLETHYL-3,  
11-DIOXA-2,4,10,12-TETRAFLA-7-BONATRIDECANE  
CA 14653ORGAN, UNKNOWNCAL D 0.9634 NO3808.0 04444444 T -0.  
C 21 H 57 B 1 O 351 6  
MW 537.05 MI 89.51 MA 0.0924 HD 6.16 EM 48.25 GR 5.21

6-...DIMETHYL(1,3,5-TRIMETHYLSILYL)-METHYLSILYL-METHYL-2,2,4,4,8,8,10,1  
U-OCETAMETHYL-2,4,8,10-TETRAFLA-6-BORANDECANE  
CA 53,19828ORGAN, UNKNOWNCAL D 0.9189 NO3809.0 04444444 T -0.  
C 21 H 57 B 1 O 351 6  
MW 489.05 MI 82.54 MA 0.0934 HD 6.45 EM 48.25 GR 5.46

U-TRIS-IPENTAMETHYLSILOXANYLETHYL-N-TRIMETHYLBORAZINE  
AD230, 7040ORGAN, UNKNOWNKNO D 0.9158 NO4295.0 04444444 T -0.  
C 21 H 60 B 3 N 3 O 351 3  
MW 519.46 MI 89.88 MA 0.0934 HD 6.37 EM 54.13 GR 5.75

BORIC ACID-1-HYDROXY-2-NAPHTHOIC ACID-SODIUM DERIV.  
CA 52, 28190ORGAN, SOLIDCAL D 1.5816 NO3810.0 04444444 T -0.  
C 22 H 12 B 1 NA 1 O 6  
MW 406.15 MI 37.94 MA 0.0890 HD 2.81 EM 14.46

A 310

TRIMETHYLBORAZINE  
CA 53,19828ORGAN, UNKNOWNEST D 0.9500 NO1590.0 04444444 T -0.  
C 21 H 53 B 1  
MW 386.13 MI 80.98 MA 0.0922 HD 5.97 EM 38.95 GR 4.68

DIALLYL(1,6-DI-TERT-BUTYL-PARA-TOLYLBORATE  
CA 54, 4608ORGAN, SOLIDEST D 0.9500 NO1591.0 04444444 T -0.  
C 21 H 83 B 1 O 3  
MW 344.31 MI 53.95 MA 0.0936 HD 5.72 EM 25.95 GR 4.49

DI-ISOPROPYL (2,6-DI-TERT-BUTYL-PARA-TOLYLBORATE  
CA 54, 4608ORGAN, SOLIDEST D 0.9400 NO1592.0 04444444 T 88.50  
C 21 H 37 B 1 O 3  
MW 348.35 MI 57.93 MA 0.0962 HD 6.01 EM 28.89 GR 4.70

BENZYLDODECYLDIMETHYLANMONIUM FLUOBORATE  
CA 52,14188ORGAN, UNKNOWNCAL D 0.8980 NO3806.0 04444444 T -0.  
C 21 H 58 B 1 P 4 N 1  
MW 391.86 MI 82.21 MA 0.0860 HD 5.25 EM 30.99 GR 4.28

2,3-DIMETHYL-2,6-PENTANEDIOX BORATE  
CA 51,14294ORGAN, UNKNOWNCAL D 0.8649 NO4412.0 04444444 T -0.  
C 21 H 42 B 2 O 6  
MW 412.21 MI 86.89 MA 0.0850 HD 5.34 EM 33.93 GR 4.31

TRIMETHYLBORANE  
NACH 437219ORGAN, UNKNOWNEST D 0.7800 NO1593.0 04444444 T -0.  
C 21 H 45 B 1  
MW 308.41 MI 82.98 MA 0.0934 HD 6.86 EM 34.75 GR 5.29

BOROTRICHLOTRIDE-TRIMETHYLBORANE  
AD200, 4880ORGAN, UNKNOWNCAL D 0.9208 NO4499.0 04444444 T -0.  
C 21 H 45 B 1 CL 3 N 1  
MW 428.79 MI 87.65 MA 0.0875 HD 5.82 EM 61.17 GR 80.09

F,9-DIMETHYLPEN-3-YL BORATE  
CA 52, 3326ORGAN, SOLIDEST D 0.8400 NO1594.0 04444444 T 58.00  
C 21 H 45 B 1 O 3  
MW 356.14 MI 85.95 MA 0.0936 HD 6.39 EM 34.76 GR 4.93

HEPTYL BORATE  
CA 52,10458ORGAN, LIQUIDKNO D 0.8398 NO 367.0 04444444 T -0.  
C 21 H 45 B 1 O 3  
MW 356.14 MI 85.95 MA 0.0936 HD 6.39 EM 34.76 GR 4.93

3-HEPTYL BORATE  
CA 51,10398ORGAN, LIQUIDKNO D 0.8380 NO 368.0 04444444 T -0.  
C 21 H 45 B 1 O 3  
MW 356.14 MI 85.95 MA 0.0934 HD 6.37 EM 34.76 GR 4.92

A 312

1-NAPHTHYLDIPHENYLBORANE  
CA 51, 1876ORGAN, UNKNOWNEST D 1.1800 NO1596.0 04444444 T -0.  
C 27 H 17 H 1  
MW 297.20 MI 35.79 MA 0.0871 HD 4.14 EM 14.22 GR 3.46

2,2'-PRIME-8-PYRIDYLOOIPHENYLBORONUM PERCHLORATE  
CA 53,21318ORGAN, UNKNOWNCAL D 1.1772 NO3811.0 04444444 T -0.  
C 22 H 18 B 1 CL 1 N 2 O 4  
MW 420.68 MI 44.09 MA 0.0743 HD 3.03 EM 211.57 GR 35.68

RIS-IRETA-METHYL ALPHA NAPHTHYLBORON-FLUORIDE  
AD239, 0430ORGAN, UNKNOWNCAL D 1.1295 NO4900.0 04444444 T -0.  
C 22 H 18 B 1 P 1  
MW 312.21 MI 38.08 MA 0.0827 HD 3.91 EM 15.03 GR 3.26

CHLOROPHENYLBORON-PYRIDINE  
CA 52, 2930ORGAN, SOLIDCAL D 1.0910 NO3812.0 04444444 T 106.50  
C 22 H 20 B 1 CL 1 N 2 O 1  
MW 374.69 MI 43.12 MA 0.0722 HD 3.51 EM 213.03 GR 37.36

TRIS(2,6-DICHLOROPHENYLBORATE-DIETHYLAMINE  
CA 51, 2777ORGAN, SOLIDCAL D 1.3001 NO3813.0 04444444 T 175.00  
C 22 H 20 B 1 CL 6 N 1 O 3  
MW 569.97 MI 50.03 MA 0.0887 HD 2.75 EM 1184.10 GR 162.70

DI-1-NAPHTHYL(2-AMINOETHOXY)BORANE  
CA 53,13107ORGAN, SOLIDEST D 1.3000 NO1597.0 04444444 T 205.50  
C 22 H 20 B 1 N 1 O 1  
MW 325.23 MI 40.85 MA 0.0984 HD 4.82 EM 17.91 GR 4.21

TRI-PARA-TOLYL METHYL CARBONIUM FLUOBORATE  
CA 52, 7180ORGAN, UNKNOWNCAL D 1.0645 NO3814.0 04444444 T -0.  
C 22 H 21 N 1 P 4  
MW 372.23 MI 44.95 MA 0.0774 HD 3.62 EM 17.45 GR 3.01

TRIS(PARA-METHOXYPHENYLETHYLMETHYLCARBONIUM TETRAFLUOBORATE  
CA 54, 54270ORGAN, SOLIDCAL D 1.0924 NO3815.0 04444444 T 168.00  
C 22 H 21 B 1 F 4 O 3  
MW 420.23 MI 47.92 MA 0.0750 HD 3.29 EM 17.46 GR 2.73

POTASSIUM CYANOTRITOLYLBORATE  
CA 54, 26710ORGAN, UNKNOWNCAL D 1.1293 NO3816.0 04444444 T -0.  
C 22 H 21 B 1 K 1 N 1  
MW 349.34 MI 42.40 MA 0.0826 HD 4.09 EM 40.50 GR 7.89

SODIUM CYANOTRI-ORTHU-TOLYLBORATE  
CA 50,13710ORGAN, SOLIDCAL D 1.1423 NO3817.0 04444444 T 125.00  
C 22 H 21 B 1 N 1 NA 1  
MW 333.23 MI 42.07 MA 0.0869 HD 4.34 EM 22.13 GR 4.57

A 313

## SODIUM CYANOTRI-META-TOLYLBORATE

CA 50.1373ORGAN. SOLIDICAL D 1.1423 NO3818.0 04444444 T -0.  
C 22 H 21 B 1 N 1 MA 1  
MW 333.23 MI 42.07 MA 0.0889 MD 4.34 EM 22.13 GR 4.97

## SODIUM CYANOTRI-PARA-TOLYLBORATE

CA 50.1373ORGAN. SOLIDICAL D 1.1423 NO3819.0 04444444 T -0.  
C 22 H 21 B 1 N 1 MA 1  
MW 333.23 MI 42.07 MA 0.0889 MD 4.34 EM 22.13 GR 4.97

## BORIC ACID-14-DIMETHYLANINO-1,4,4A,5,12A-HEXAHYDRO-3,10,11,12A-TETRAHYDROXY-6-METHYL-1,12-DIOXO-2-NAPHTHACENECARBORANIDE

CA 53.3171ORGAN. SOLIDICAL D 1.0809 NO3820.0 04444444 T -0.  
C 22 H 21 B 1 N 2 O 8  
MW 452.25 MI 49.85 MA 0.0718 MD 3.02 EM 19.33 GR 2.78

## BUNION COMPLEX OF 4-DIMETHYLANINO-1,4,4A,5,12A-HEXAHYDRO-3,10,11,12A-TETRAHYDROXY-6-METHYL-1,12-DIOXO-2-NAPHTHACENECARBORANIDE

CA 53.1481ORGAN. SOLIDICAL D 1.0888 NO3821.0 04444444 T -0.  
C 22 H 21 B 1 N 2 O 9  
MW 448.25 MI 50.84 MA 0.0712 MD 2.94 EM 19.33 GR 2.71

## BORIC ACID-14-DIMETHYLANINO-1,4,4A,5,12A-HEXAHYDRO-3,10,11,12A-TETRAHYDROXY-6-METHYL-1,12-DIOXO-2-NAPHTHACENECARBORANIDE

CA 53.3171ORGAN. SOLIDICAL D 1.0867 NO3822.0 04444444 T -0.  
C 22 H 22 B 1 N 2 O 10  
MW 496.07 MI 53.80 MA 0.0710 MD 2.90 EM 21.46 GR 2.83

## NIGOTINUM SALT WITH BORON

CA 44.3828ORGAN. SOLIDICAL D 1.1314 NO3823.0 04444444 T 171.00  
C 22 H 23 B 1 N 2 O 4  
MW 390.26 MI 47.89 MA 0.0886 MD 4.02 EM 20.79 GR 3.63

## DI-1-NAPHTHYLBORINIC ACID-DIOXANE

CA 94.10987ORGAN. SOLIDEST D 1.1600 NO1908.0 04444444 T 130.50  
C 22 H 23 B 1 O 3  
MW 346.25 MI 44.76 MA 0.0903 MD 4.64 EM 18.63 GR 3.76

## 1-NAPHTHYLBORINIC ACID-TETRAHYDROTHIOPHENE

CA 52.4468ORGAN. UNKNOWCAL D 1.1351 NO5824.0 04444444 T -0.  
C 22 H 23 B 1 S 1  
MW 330.31 MI 43.09 MA 0.0892 MD 4.74 EM 19.38 GR 4.01

## LITHIUM BUTYLTRIPHENYLBORATE

CA 44.3828ORGAN. SOLIDICAL D 1.1849 NO3825.0 04444444 T -0.  
C 22 H 24 B 1 Li 1  
MW 306.19 MI 43.40 MA 0.1023 MD 3.60 EM 19.44 GR 4.54

## IN-ETHYLANILINOIDI-PARA-TOLYLBORANE

CA 54.8742ORGAN. SOLIDEST D 1.7500 NO1909.0 04444444 T 169.00  
C 22 H 24 B 1 N 1  
MW 313.26 MI 43.86 MA 0.1054 MD 3.77 EM 20.44 GR 4.91

A 313

## DIOCTYL PHENYLBORONATE

CA 52.2920ORGAN. LIQUIDKNO D 0.8990 NO 319.0 04444444 T -0.  
C 22 H 39 B 1 O 2  
MW 366.37 MI 99.77 MA 0.0493 MD 6.07 EM 30.37 GR 4.73

## BIS(1-METHYLBORON)PHENYLBORONATE

CA 52.2920ORGAN. LIQUIDKNO D 0.8890 NO 520.0 04444444 T -0.  
C 22 H 39 B 1 O 2  
MW 366.37 MI 99.77 MA 0.0494 MD 6.03 EM 30.37 GR 4.70

## DI(2-OCTYLOXY)PHENYLBORANE

CA 50.2180ORGAN. LIQUIDKNO D 0.8847 NO 369.0 04444444 T -0.  
C 22 H 39 B 1 O 2  
MW 366.37 MI 99.77 MA 0.0490 MD 6.00 EM 30.37 GR 4.67

## META-BIS(DIBUTYLBORONYL)BENZENE

CA 51.15444ORGAN. UNKNOWCAL D 0.9800 NO1602.0 04444444 T -0.  
C 22 H 40 B 2 O 4  
MW 390.20 MI 63.72 MA 0.0966 MD 6.05 EM 32.50 GR 4.92

## PARA-BIS(DIBUTYLBORONYL)BENZENE

CA 51.15444ORGAN. UNKNOWCAL D 0.9800 NO1603.0 04444444 T -0.  
C 22 H 40 B 2 O 4  
MW 390.20 MI 63.72 MA 0.0964 MD 6.05 EM 32.50 GR 4.92

## N-PRIME BIS(DIBUTYLBORONYL)-N-PHENYL-HYDRAZINE

CA 54.20934ORGAN. LIQUIDKNO D 0.8678 NO3830.0 04444444 T -0.  
C 22 H 42 B 2 N 2  
MW 356.23 MI 63.90 MA 0.0938 MD 6.16 EM 36.17 GR 5.30

## 2,5-HEXANEDIOX-BIS(2-ETHYL-1-PROPYLTRIMETHYLENE DIBORATE)

CA 54.8631ORGAN. SOLIDICAL D 0.8791 NO3831.0 04444444 T 196.00  
C 22 H 44 B 2 O 6  
MW 426.23 MI 69.70 MA 0.0906 MD 5.72 EM 35.44 GR 4.61

## 2-PROPANOL-1,1-PRIME-ORXO-1-BIS(2-ETHYL-1-PROPYLTRIMETHYLENE BORATE)

CA 54.8631ORGAN. SOLIDICAL D 0.8791 NO3831.0 04444444 T 196.00  
C 22 H 44 B 2 O 7  
MW 442.23 MI 70.69 MA 0.0846 MD 5.27 EM 35.44 GR 4.24

## CYCLOXYL DI(2-OCTYLBORATE)

CA 50.4920ORGAN. UNKNOWCAL D 0.8900 NO1605.0 04444444 T -0.  
C 22 H 45 B 1 O 3  
MW 368.47 MI 96.76 MA 0.0571 MD 6.55 EM 34.77 GR 5.06

## OIMERIC DIBUTYL PROP-7-EN-1-YLBORONATE

CA 53.6951ORGAN. LIQUIDKNO D 0.8814 NO 506.0 04444444 T -0.  
C 22 H 46 B 2 O 2  
MW 396.25 MI 97.72 MA 0.0934 MD 6.16 EM 36.90 GR 4.94

A 314

## 11-DIPHENYLBORONYL-2-TRIMETHYLSILICY-ACETYLENE

CA 55.4370ORGAN. SOLIDICAL D 1.1010 NO3826.0 04444444 T 120.00  
C 22 H 24 B 1 N 1 SI 1  
MW 341.35 MI 45.12 MA 0.0877 MD 4.66 EM 21.22 GR 4.12

## TRIPHENYLBORON-DI-MORPHOLINE

CA 53.2131ORGAN. SOLIDICAL D 1.1443 NO3828.0 04444444 T 188.50  
C 22 H 24 B 3 N 1 O 4  
MW 398.90 MI 49.76 MA 0.0880 MD 4.15 EM 23.23 GR 4.01

## CYANDIPHENYLBORON DERIV OF DIMETHYLANINE

CA 52.18787ORGAN. UNKNOWCAL D 1.1000 NO1600.0 04444444 T -0.  
C 22 H 25 B 1 N 2  
MW 328.28 MI 45.93 MA 0.0927 MD 5.05 EM 22.25 GR 4.49

## METHYL ESTER OF CYCLIC-16,17-BORATE OF 9-FLUORO-11BETA-18ALPHA,17,2

CA 52.14724ORGAN. UNKNOWCAL D 1.0645 NO3827.0 04444444 T -0.  
C 22 H 28 B 1 F 1 O 7  
MW 436.29 MI 55.01 MA 0.0812 MD 4.13 EM 22.38 GR 3.30

## TETRAMETHYLANHONIUMTRIPHENYLBORONOXOBORATE

CA 52.1971ORGAN. SOLIDEST D 1.0000 NO1601.0 04444444 T 189.00  
C 22 H 28 B 1 N 4 O 4  
MW 333.29 MI 68.85 MA 0.0883 MD 5.06 EM 23.38 GR 4.22

## METHYL ESTER OF CYCLIC 16,17-BORATE OF 9-FLUORO-16ALPHA,17-DIMETHYLOXY

CA 52.14724ORGAN. UNKNOWCAL D 1.0230 NO3829.0 04444444 T -0.  
C 22 H 30 B 1 F 1 O 7  
MW 436.30 MI 57.01 MA 0.0805 MD 4.24 EM 23.85 GR 3.37

## ISOBUTYL DINESIYL BORINATE

AD2394 0430ORGAN. UNKNOWCAL D 0.8893 NO4501.0 04444444 T -0.  
C 22 H 31 B 1 O 1  
MW 322.81 MI 50.78 MA 0.0844 MD 5.15 EM 24.50 GR 4.07

## POLYBUTYLBORONOSILOXANE

CA 51.14544ORGAN. POLYMERICAL D 1.0767 NO4513.0 04444444 T -0.  
C 22 H 34 B 1 O 2  
MW 445.81 MI 60.26 MA 0.0877 MD 4.95 EM 28.27 GR 4.12

## BISIN-DUTYLDIFTHANOLANHONIUMBENZENE-1,3-DIBORONATE

CA 50.19599ORGAN. SOLIDICAL D 0.9298 NO4413.0 04444444 T 166.50  
C 22 H 38 B 2 N 2 O 4  
MW 416.20 MI 63.86 MA 0.0859 MD 5.11 EM 33.19 GR 4.47

## BISIN-DUTYLDIFTHANOLANHONIUMBENZENE-1,4-DIBORONATE

CA 50.19599ORGAN. SOLIDICAL D 0.9298 NO4414.0 04444444 T 247.50  
C 22 H 38 B 2 N 2 O 4  
MW 416.20 MI 63.86 MA 0.0859 MD 5.11 EM 33.19 GR 4.47

A 316

## 1,2-BIS(DIBUTYLBORONYL)DIETHANE

CA 53.13107ORGAN. UNKNOWCAL D 0.8300 NO1606.0 04444444 T -0.  
C 22 H 48 B 2 O 2  
MW 366.27 MI 69.74 MA 0.0952 MD 6.55 EM 38.37 GR 5.24

## ETHYLENE DIPENTYLBORINATE

CA 53.3882ORGAN. UNKNOWCAL D 0.8300 NO1607.0 04444444 T -0.  
C 22 H 48 B 2 O 2  
MW 366.27 MI 69.74 MA 0.0952 MD 6.55 EM 38.37 GR 5.24

## (DIMETHYLENE(DIOXY)BIS(DI-1-ANYLBORANE)

CA 40.15729ORGAN. LIQUIDKNO D 0.8287 NO 370.0 04444444 T -0.  
C 22 H 48 B 2 O 2  
MW 366.27 MI 69.74 MA 0.0948 MD 6.55 EM 38.37 GR 5.22

## ETHYLENE TETRAEPTYLBORONATE

CA 52.4472ORGAN. LIQUIDKNO D 0.9189 NO 523.0 04444444 T -0.  
C 22 H 48 B 2 O 6  
MW 430.27 MI 73.70 MA 0.0948 MD 6.17 EM 38.37 GR 4.94

## (HEXAMETHYLENE(DIIMINO)BIS(DIBUTYLBORANE)

CA 53.15958ORGAN. LIQUIDKNO D 0.8183 NO 454.0 04444444 T -0.  
C 22 H 50 B 2 N 2  
MW 366.30 MI 71.90 MA 0.0973 MD 6.76 EM 41.99 GR 5.68

## 3,11-DIBUTYL-7,7,9,9-TETRAMETHYL-8-OXA-7,9-DISILA-5,11-DIBORAPENTAD

CA 54.3468ORGAN. UNKNOWCAL D 0.8166 NO3832.0 04444444 T -0.  
C 22 H 52 B 2 O 2  
MW 410.48 MI 75.27 MA 0.0902 MD 6.23 EM 42.86 GR 5.14

## 2,2-PRIME-1-ETHYLINODIBIS(1,3,5-TRIMETHYL-4,6-BIS(ETHYLANINO)BORAZIN

CA 53.14114ORGAN. UNKNOWCAL D 0.8565 NO3833.0 04444444 T -0.  
C 22 H 54 B 6 N 11  
MW 542.72 MI 94.41 MA 0.0897 MD 5.61 EM 43.87 GR 6.07

## BIS(BIS(ETHYLBORONYL)SILYL)METHYLBORAZINE(DIOXIDE

AD230.704ORGAN. SOLIDICAL D 0.9383 NO4236.0 04444444 T 95.50  
C 22 H 62 B 8 N 4 O 2  
MW 604.07 MI 98.09 MA 0.0918 MD 5.80 EM 63.80 GR 5.97

## 4-(TRIMETHYLBORONYL)-2,6-BIS(PARA-CHLOROPHENYL)PYRILIUM FLUOBORATE

CA 53.12786ORGAN. SOLIDICAL D 1.4508 NO3834.0 04444444 T 309.00  
C 23 H 14 B 3 Cl 3 F 4 O 1  
MW 499.58 MI 43.35 MA 0.0762 MD 2.46 EM 595.67 GR 104.77

## 2,5-DICHLOROPHENYLBORATE-PYRIDINE

CA 51.2777ORGAN. SOLIDICAL D 1.5227 NO3835.0 04444444 T 167.00  
C 23 H 14 B 2 Cl 2 N 1 O 3  
MW 444.84 MA 0.0714 MD 2.23 EM179.80 GR 187.88





A 321

TETRAPHENYLBORON OXIDE  
CA 94.1425ORGAN. SOLIDEST D 1.1900 NO1413.0 04444444 T 111.00  
C 24 H 20 B 2 O 1  
MW 346.04 MI 42.37 NA 0.0875 MD 4.14 EN 17.85 GR 3.70

2,4-DICHLORO-1,3,5,6-TETRAPHENYLBORAZINE  
CA 94.8860ORGAN. UNKNOWEST D 1.1900 NO3865.0 04444444 T -0.  
C 24 H 20 B 3 CL 2 N 3  
MW 493.82 MI 47.96 NA 0.0763 MD 3.18 EN 411.37 GR 65.45

THIS-O-(PARA-CHLOROPHENYL)BORYLENE)NANNITOL  
CA 49.11380ORGAN. SOLIDICAL D 1.2000 NO3866.0 04444444 T 184.50  
C 24 H 20 B 3 CL 1 N 4  
MW 543.23 MI 51.89 NA 0.0741 MD 2.86 EN 602.59 GR 86.11

HYDROGEN TETRAPHENYLBORATE  
CA 94.13030ORGAN. UNKNOWEST D 1.0809 NO3867.0 04444444 T -0.  
C 24 H 21 B 1  
MW 320.29 MI 41.41 NA 0.0826 MD 4.19 EN 17.19 GR 3.43

TETRAPHENYLBORICACID  
CA 13.2210ORGAN. UNKNOWEST D 1.1900 NO1616.0 04444444 T -0.  
C 24 H 21 B 1  
MW 320.29 MI 41.41 NA 0.0927 MD 4.70 EN 17.19 GR 3.85

TRISICHLORO-PARATOLYLIMINO-BORINE  
CA 13.2530ORGAN. SOLIDICAL D 1.2193 NO3868.0 04444444 T 109.00  
C 24 H 21 B 3 CL 3 N 3 U 3  
MW 530.29 MI 55.13 NA 0.0725 MD 2.87 EN 606.55 GR 82.77

TRISIPARA-VINYLPHENYLBOROXIN  
CA 94.16030ORGAN. SOLIDEST D 1.2900 NO1617.0 04444444 T -0.  
C 24 H 21 B 1  
MW 369.89 MI 46.32 NA 0.0923 MD 4.19 EN 19.98 GR 3.98

CHLORODI-1-NAPHTHYLBORINE-PARA-DIOXANE  
CA 94.10940ORGAN. SOLIDEST D 1.2900 NO1618.0 04444444 T 94.50  
C 24 H 22 B 1 CL 1 O 2  
MW 385.72 MI 45.99 NA 0.0883 MD 4.26 EN 212.37 GR 41.14

DIHYPHENYL-ORTHO-IPHENYLBORINE-PYRIDINE  
CA 94.3860ORGAN. SOLIDEST D 1.1900 NO1619.0 04444444 T 178.00  
C 24 H 22 B 1 N 1  
MW 335.27 MI 43.48 NA 0.0898 MD 4.55 EN 19.00 GR 3.93

DIPHENYL-PARA-TOLYLBORINE-PYRIDINE  
CA 94.3860ORGAN. SOLIDEST D 1.1900 NO1620.0 04444444 T 157.00  
C 24 H 22 B 1 N 1  
MW 335.27 MI 43.48 NA 0.0898 MD 4.55 EN 19.00 GR 3.93

A 323

TRIS-ORTHODI-IPHENYLBORYLENE)BORITOL  
CA 49.11380ORGAN. SOLIDEST D 1.2000 NO1624.0 04444444 T 188.50  
C 24 H 23 B 3 O 6  
MW 499.29 MI 51.29 NA 0.0843 MD 3.78 EN 21.45 GR 3.52

D-CHLORO-ALPHA-METHYLBENZYL BORATE  
CA 44.7020ORGAN. UNKNOWEST D 1.2058 NO 371.0 04444444 T -0.  
C 24 H 24 B 1 CL 3 O 3  
MW 477.65 MI 50.98 NA 0.0775 MD 3.65 EN 602.73 GR 91.65

D-AND P-CHLORO-ALPHA METHYLBENZYL BORATE  
CA 44.7020ORGAN. UNKNOWEST D 1.2058 NO 372.0 04444444 T -0.  
C 24 H 24 B 1 CL 3 O 3  
MW 477.65 MI 50.98 NA 0.0775 MD 3.65 EN 602.73 GR 91.68

P-CHLORO-ALPHA-METHYLBENZYL BORATE  
CA 44.7020ORGAN. UNKNOWEST D 1.2058 NO 373.0 04444444 T -0.  
C 24 H 24 B 1 CL 3 O 3  
MW 477.65 MI 50.98 NA 0.0775 MD 3.65 EN 602.73 GR 91.57

2,3-DICHLOROPHENYL BORATE-TRIFETHYLAMINE  
CA 91.2770ORGAN. LIQUIDICAL D 1.2281 NO4099.0 04444444 T -0.  
C 24 H 24 B 1 CL 2 N 1 O 3  
MW 598.03 MI 55.65 NA 0.0888 MD 2.97 EN 187.15 GR 146.84

DIETHYLANILINDI-1-NAPHTHYLBORINE  
CA 94.10910ORGAN. UNKNOWEST D 1.1800 NO1630.0 04444444 T -0.  
C 24 H 24 B 1 N 1  
MW 337.28 MI 49.48 NA 0.0958 MD 5.06 EN 20.47 GR 4.31

AMMONIUM TETRAPHENYLBORATE  
CA 94.1170ORGAN. UNKNOWEST D 1.1800 NO1631.0 04444444 T -0.  
C 24 H 24 B 1 N 1  
MW 337.28 MI 49.48 NA 0.0958 MD 5.06 EN 20.47 GR 4.31

ISOBUTYLANILINDI-1-NAPHTHYLBORINE  
CA 94.10510ORGAN. UNKNOWEST D 1.1800 NO1632.0 04444444 T -0.  
C 24 H 24 B 1 N 1  
MW 337.28 MI 49.48 NA 0.0958 MD 5.06 EN 20.47 GR 4.31

2-AMINOISOBUTYL DI-1-NAPHTHYLBORANE  
CA 94.55510ORGAN. SOLIDEST D 1.2000 NO1633.0 04444444 T 209.00  
C 24 H 24 B 1 N 1 O 1  
MW 353.28 MI 46.47 NA 0.0951 MD 4.91 EN 20.47 GR 4.19

TETRAPHENYLBORON OXIDE  
CA 94.1425ORGAN. SOLIDICAL D 1.1263 NO3871.0 04444444 T -0.  
C 24 H 20 B 2 O 1  
MW 346.04 MI 42.37 NA 0.0851 MD 3.92 EN 17.85 GR 3.50

A 322

PHENYL BORATE-(12-METHYLPYRIDINE)  
CA 91.2770ORGAN. SOLIDICAL D 1.0582 NO3869.0 04444444 T 104.00  
C 24 H 22 B 1 N 1 O 3  
MW 383.27 MI 46.45 NA 0.0792 MD 3.66 EN 19.01 GR 3.16

BORANE-PARABIS(DIPHENYL)PHOSPHINE  
CA 94.16210ORGAN. UNKNOWEST D 1.0832 NO3870.0 04444444 T -0.  
C 24 H 22 B 1 P 1  
MW 392.23 MI 43.24 NA 0.0810 MD 4.07 EN 19.75 GR 3.66

1,2,3,5-TETRAPHENYLBORAZINE  
CA 93.16110ORGAN. SOLIDEST D 1.2900 NO1621.0 04444444 T 214.50  
C 24 H 22 B 3 N 3  
MW 384.92 MI 47.56 NA 0.0930 MD 4.30 EN 23.94 GR 4.68

ISOBUTYL DI-1-NAPHTHYLBORINATE  
CA 94.11060ORGAN. SOLIDEST D 1.2000 NO1622.0 04444444 T 104.90  
C 24 H 23 B 1 O 1  
MW 338.27 MI 44.40 NA 0.0949 MD 4.91 EN 18.66 GR 3.99

1,2-CYCLOHEXYLENE 1,2-DIPHENYLBORONATE  
CA 93.17980ORGAN. SOLIDEST D 1.1900 NO1623.0 04444444 T 127.50  
C 24 H 23 B 1 O 2  
MW 394.27 MI 45.39 NA 0.0918 MD 4.65 EN 18.66 GR 3.78

BUTYL DI-1-NAPHTHYLBORINATE  
CA 94.10510ORGAN. UNKNOWEST D 1.2200 NO1624.0 04444444 T -0.  
C 24 H 23 B 1 S 1  
MW 394.33 MI 46.71 NA 0.0927 MD 4.77 EN 19.42 GR 4.03

GALACTYL PHENYLBORONATE, CYCLICTRIESTER  
CA 94.16210ORGAN. UNKNOWEST D 1.2000 NO1625.0 04444444 T -0.  
C 24 H 23 B 3 O 6  
MW 439.91 MI 51.29 NA 0.0843 MD 3.78 EN 21.45 GR 3.52

NANNITOL PHENYLBORONATE, CYCLICTRIESTER  
CA 94.16210ORGAN. UNKNOWEST D 1.2000 NO1626.0 04444444 T -0.  
C 24 H 23 B 3 O 6  
MW 439.91 MI 51.29 NA 0.0843 MD 3.78 EN 21.45 GR 3.52

SORBITOL PHENYLBORONATE, CYCLICTRIESTER  
CA 94.16210ORGAN. UNKNOWEST D 1.2000 NO1627.0 04444444 T -0.  
C 24 H 23 B 3 O 6  
MW 439.91 MI 51.29 NA 0.0843 MD 3.78 EN 21.45 GR 3.52

TRIS-ORTHODI-IPHENYLBORYLENE)NANNITOL  
CA 49.11380ORGAN. SOLIDEST D 1.2000 NO1628.0 04444444 T 134.50  
C 24 H 23 B 3 O 6  
MW 439.91 MI 51.29 NA 0.0843 MD 3.78 EN 21.45 GR 3.52

A 324

TRISIPARA-CHLORODI-1-NAPHTHYLBOROXIN  
CA 94.16030ORGAN. SOLIDICAL D 1.1843 NO3872.0 04444444 T -0.  
C 24 H 24 B 3 CL 3 O 3  
MW 499.29 MI 52.92 NA 0.0743 MD 3.37 EN 605.92 GR 85.07

2,4,6-TRIVINYL-1,3,5-TRIPHENYLBORAZOLE  
CA 94.4430ORGAN. SOLIDICAL D 1.0019 NO3873.0 04444444 T 179.00  
C 24 H 24 B 3 N 3  
MW 386.94 MI 49.56 NA 0.0773 MD 3.74 EN 25.41 GR 3.96

POTASSIUM TETRAPHENYLBORATE  
CA 94.14300ORGAN. SOLIDICAL D 1.1740 NO 90.0 04444444 T -0.  
C 24 H 20 B 1 K 1  
MW 356.52 MI 41.95 NA 0.0828 MD 3.95 EN 38.72 GR 7.64

TRISIPHENYLETHYLBORANE  
CA 94.16930ORGAN. LIQUIDEST D 1.0900 NO1634.0 04444444 T -0.  
C 24 H 27 B 1  
MW 326.30 MI 47.41 NA 0.0994 MD 5.43 EN 21.59 GR 4.34

PARACHLOROPHENYL BORATE-TRIEETHYLAMINE  
CA 91.2770ORGAN. LIQUIDICAL D 1.2089 NO3874.0 04444444 T -0.  
C 24 H 27 B 1 CL 3 N 1 O 3  
MW 494.68 MI 55.05 NA 0.0809 MD 3.97 EN 606.02 GR 89.06

2,4-DIETHYL BORATE  
CA 94.14600ORGAN. UNKNOWEST D 1.0600 NO1635.0 04444444 T -0.  
C 24 H 27 B 1 O 3  
MW 374.30 MI 50.38 NA 0.0859 MD 4.61 EN 21.60 GR 3.68

2,6-DIETHYLBENZYL BORATE  
CA 91.2770ORGAN. SOLIDEST D 1.0600 NO1636.0 04444444 T 139.00  
C 24 H 27 B 1 O 3  
MW 374.30 MI 50.38 NA 0.0859 MD 4.61 EN 21.60 GR 3.68

ALPHA-METHYLBENZYL BORATE  
CA 49.13880ORGAN. UNKNOWEST D 1.0640 NO 374.0 04444444 T -0.  
C 24 H 27 B 1 O 3  
MW 374.30 MI 50.38 NA 0.0863 MD 4.62 EN 21.60 GR 3.70

2-MERCAPTO-2-PHENYLETHYL BORATE  
CA 91.20330ORGAN. UNKNOWEST D 1.2053 NO3875.0 04444444 T -0.  
C 24 H 27 B 1 O 3 S 1  
MW 470.46 MI 54.28 NA 0.0838 MD 4.17 EN 22.87 GR 3.66

2,6-DIMETHOXYPHENYL BORATE  
CA 91.2770ORGAN. SOLIDEST D 1.3900 NO1637.0 04444444 T 134.00  
C 24 H 27 B 1 O 4  
MW 470.30 MI 56.32 NA 0.0976 MD 4.67 EN 21.61 GR 3.74

A 325

TRI-ORTHOMETHYLBORATE  
CA 55. 348400000. SOLIDICAL D 1.1036 NO3875.0 04444444 T 244.50  
C 24 H 27 B 3 O 3  
MW 393.94 MI 32.32 NA 0.0970 MD 4.13 EM 24.38 GR 4.09

TRIS(PARA-ETHYLPHENYL)BOROXIN  
CA 53.180300000. SOLIDEST D 1.1700 NO1638.0 04444444 T 194.50  
C 24 H 27 B 3 O 3  
MW 393.94 MI 32.32 NA 0.0931 MD 4.81 EM 24.38 GR 4.34

BIS(DI-PARA-CHLOROPHENYL)PHOSPHINEDECABORANE  
AD263. 0970000. UNKNOWCAL D 1.2023 NO4903.0 04444444 T -0.  
C 24 H 28 B 10 P 2  
MW 486.64 MI 59.80 NA 0.0934 MD 4.37 EM 38.30 GR 6.01

TRIPHENYLBORINE-ISOPROPYL SULFIDE  
CA 52. 4640000. SOLIDEST D 1.1000 NO1639.0 04444444 T 168.00  
C 24 H 29 B 1 S 1  
MW 360.38 MI 50.71 NA 0.0932 MD 5.33 EM 23.82 GR 4.38

TRIPHENYLBORINE-TRIMETHYLAMINE  
CA 52. 4640000. SOLIDEST D 1.0800 NO1640.0 04444444 T 177.50  
C 24 H 30 B 1 N 1  
MW 343.33 MI 51.48 NA 0.0975 MD 5.68 EM 24.87 GR 4.71

TRIMETHYLAMMONIUM TRIPYRACATEMOL BORATE  
CA 44. 3820000. SOLIDICAL D 1.0389 NO3877.0 04444444 T 103.50  
C 24 H 30 B 1 N 1 O 6  
MW 439.33 MI 57.42 NA 0.0818 MU 4.27 EM 24.88 GR 3.94

TRIS(PARA-ETHYLPHENYL)AMINOPHENYLBORANE  
CA 50.137300000. SOLIDEST D 1.1400 NO1656.0 04444444 T 210.50  
C 24 H 30 B 1 N 3  
MW 371.35 MI 53.82 NA 0.0991 MD 5.55 EM 27.03 GR 5.00

TRIS(N-ETHYLANILINDI)BORINE  
CA 53. 5310000. SOLIDEST D 1.1400 NO1641.0 04444444 T 164.50  
C 24 H 30 B 1 N 3  
MW 371.35 MI 53.82 NA 0.0991 MU 5.55 EM 27.03 GR 5.00

2,4,6-TRIETHYL-1,3,5-TRIPHENYLBORAZINE  
ACS 4. 1310000. UNKNOWEST D 1.1500 NO1642.0 04444444 T -0.  
C 24 H 30 B 3 N 3  
MW 392.99 MI 55.56 NA 0.0979 MD 5.29 EM 29.82 GR 5.26

1,3,5-TRIETHYL-2,4,6-TRIPHENYLBORAZINE  
CA 54. 8080000. SOLIDEST D 1.1500 NO1714.0 04444444 T 206.50  
C 24 H 30 B 3 N 3  
MW 392.99 MI 55.56 NA 0.0979 MD 5.29 EM 29.82 GR 5.26

A 327

DIMETHYL PHENYLTRIMIDORONATE  
AD260. 4070000. LIQUIDICAL D 0.8949 NO4305.0 04444444 T -0.  
C 24 H 43 B 1 S 2  
MW 406.59 MI 66.01 NA 0.0875 MD 5.70 EM 34.85 GR 4.82

1-METHYL CYCLOHEXYLMETHYL BORATE  
WATR 64. 5320000. LIQUIDEST D 1.0500 NO1647.0 04444444 T 24.00  
C 24 H 45 B 1 O 3  
MW 392.99 MI 58.38 NA 0.1112 MD 7.32 EM 34.81 GR 5.86

2,2,4-TRIMETHYL-1-PENTYL BORATE  
WATR 64. 5320000. UNKNOWEST D 0.8600 NO1648.0 04444444 T -0.  
C 24 H 48 B 1 O 3  
MW 395.47 MI 71.38 NA 0.0985 MD 6.29 EM 37.01 GR 4.89

2,2-PHOSPHINE-11,1,4,4-TETRAMETHYLTETRAMETHYLENE(DIOXY)-DISI,4,7,7-TETRA  
METHYL-1,3,2-DIOXABOROPANE  
CA 51.039300000. SOLIDEST D 1.0000 NO1649.0 04444444 T 69.00  
C 24 H 48 B 2 O 6  
MW 494.29 MI 78.32 NA 0.0989 MD 6.36 EM 38.40 GR 5.09

2,4-DIMETHYL-2,4-HEXAMETHYLBORATE  
CA 51.142500000. UNKNOWCAL D 0.8527 NO4416.0 04444444 T -0.  
C 24 H 48 B 2 O 6  
MW 494.29 MI 78.32 NA 0.0882 MD 5.93 EM 38.40 GR 4.34

BIS(PROPYLENEGLYCOL)DI)BORATE TETRAMER  
CA 40.106400000. LIQUIDICAL D 1.4742 NO4314.0 04444444 T -0.  
C 24 H 48 B 4 O 20  
MW 743.21 MI 93.00 NA 0.1135 MD 5.74 EM 46.77 GR 5.59

TRIS(2,4-TRIMETHYLPENTYL)BORINE  
CA 51.216000000. LIQUIDEST D 0.7900 NO1650.0 04444444 T -0.  
C 24 H 51 B 1  
MW 350.69 MI 71.41 NA 0.0970 MD 6.92 EM 39.21 GR 5.32

TRIOCTYLBORINE  
CA 53.100100000. LIQUIDAND D 0.7920 NO 509.0 04444444 T -0.  
C 24 H 51 B 1  
MW 350.69 MI 71.41 NA 0.0972 MD 6.94 EM 39.21 GR 5.34

OCTYLCTOXYLCTOXYLBORANE  
CA 50. 2180000. LIQUIDAND D 0.8420 NO 377.0 04444444 T -0.  
C 24 H 51 B 1 O 2  
MW 382.49 MI 73.39 NA 0.0973 MD 6.76 EM 39.21 GR 5.20

2-ETHYL-1-METHANOLBORATE  
CA 51.103900000. UNKNOWEND D 0.8570 NO 378.0 04444444 T -0.  
C 24 H 51 B 1 O 3  
MW 395.49 MI 74.38 NA 0.0984 MD 6.61 EM 39.21 GR 5.08

A 326

8-TRIETHYL-N-TRIPHENYLBORAZINE  
CA 54.180300000. UNKNOWEND D 1.0134 NO1840.0 04444444 T -0.  
C 24 H 30 B 3 N 3  
MW 392.99 MI 55.56 NA 0.0863 MD 4.66 EM 29.82 GR 4.63

2-ETHYL-4,6-DIMETHYL-1,3,5-TRIPHENYLBORAZINE  
CA 53.161100000. UNKNOWEST D 1.1800 NO1643.0 04444444 T -0.  
C 24 H 30 B 3 N 3  
MW 392.99 MI 55.56 NA 0.0979 MD 5.29 EM 29.82 GR 5.26

2-ETHYL-4-METHYL-1,3,5-TRIPHENYL-6-PROPYLBORAZINE  
CA 53.161100000. UNKNOWEST D 1.1800 NO1644.0 04444444 T -0.  
C 24 H 30 B 3 N 3  
MW 392.99 MI 55.56 NA 0.0979 MD 5.29 EM 29.82 GR 5.26

1-ETHYNYLCYCLOHEXYL BORATE  
CA 51.105900000. LIQUIDAND D 1.0060 NO 375.0 04444444 T -0.  
C 24 H 33 B 1 O 3  
MW 380.35 MI 56.38 NA 0.0898 MD 5.26 EM 26.00 GR 4.14

BIS(DI-PARA-AMINO PHENYL PHOSPHINE)DECABORANE  
AD263. 0970000. UNKNOWCAL D 1.0766 NO4504.0 04444444 T -0.  
C 24 H 36 B 10 N 4 P 2  
MW 590.73 MI 72.08 NA 0.0849 MD 4.24 EM 48.68 GR 5.73

ON-SPRINE-VINYLITINE BISIN,N-DIMETHYLANILINE-1-TRIETHYL PHOSPHINE-BOR  
ON TRIFLUORIDE  
CA 52.182800000. SOLIDICAL D 1.0137 NO3878.0 04444444 T 139.00  
C 24 H 37 B 1 P 3 N 2 P 1  
MW 492.17 MI 44.75 NA 0.0874 MD 4.99 EM 33.13 GR 4.47

TRISDIETHYLMETHYLBORATE  
CA 51. 7070000. LIQUIDAND D 1.1670 NO 376.0 04444444 T -0.  
C 24 H 39 B 1 O 3  
MW 370.40 MI 74.26 NA 0.0902 MD 4.74 EM 30.42 GR 3.70

TRIS(1-OCTENYL)BORINE  
CA 51.160400000. LIQUIDEST D 0.8500 NO1645.0 04444444 T -0.  
C 24 H 41 B 1  
MW 380.41 MI 61.61 NA 0.0924 MD 6.17 EM 31.87 GR 4.79

1,3,5-TRICYCLOHEXYL-2,4,6-TRIVINYLBORAZOLE  
CA 55. 4420000. UNKNOWCAL D 0.8722 NO3879.0 04444444 T -0.  
C 24 H 42 B 3 N 3  
MW 409.08 MI 67.36 NA 0.0876 MD 5.45 EM 38.62 GR 5.01

DIISOPROPYLBIS(2,4,6-TRI-TERT-BUTYLPHENYL)BORATE  
CA 54. 8680000. SOLIDEST D 0.9000 NO1646.0 04444444 T 212.00  
C 24 H 43 B 1 O 3  
MW 370.43 MI 66.18 NA 0.0922 MD 5.97 EM 33.34 GR 4.63

A 328

OCTYL BORATE  
CA 50. 7710000. LIQUIDAND D 0.8550 NO 379.0 04444444 T -0.  
C 24 H 41 B 1 O 3  
MW 398.49 MI 74.38 NA 0.0981 MD 6.59 EM 39.21 GR 5.07

TRIS(2-OCTYL)-BORATE  
CA 46. 1957000. LIQUIDAND D 0.8642 NO 380.0 04444444 T -0.  
C 24 H 51 B 1 O 3  
MW 398.49 MI 74.38 NA 0.0972 MD 6.66 EM 39.21 GR 5.12

TETRAETHYLBORANE  
CA 54. 7534000. UNKNOWCAL D 0.7923 NO3950.0 04444444 T -0.  
C 24 H 52 B 2  
MW 362.52 MI 73.38 NA 0.0918 MD 6.50 EM 41.33 GR 5.17

BORON TRICHLORIDE-2-DOODECYLAMINE  
CA 48.127100000. SOLIDICAL D 0.8769 NO3881.0 04444444 T 174.00  
C 24 H 54 B 1 Cl 3 N 2  
MW 487.00 MI 80.15 NA 0.0868 MD 5.85 EM 62.40 GR 6.87

TRIS(DIBUTYLAMINO)BORON FLUORIDE  
CA 53. 3310000. UNKNOWCAL D 0.7698 NO3882.0 04444444 T -0.  
C 24 H 54 B 1 F 1 N 3  
MW 414.34 MI 78.91 NA 0.0883 MU 6.04 EM 44.72 GR 5.00

TRIS(DIBUTYLAMINO)BORINE  
CA 51. 9470000. LIQUIDAND D 0.8399 NO 381.0 04444444 T -0.  
C 24 H 54 B 1 N 3  
MW 395.34 MI 77.62 NA 0.0993 MD 6.91 EM 44.64 GR 5.71

HEXABUTYLBORAZINE  
PR 1.217100000. LIQUIDEST D 0.8500 NO1651.0 04444444 T -0.  
C 24 H 54 B 3 N 3  
MW 417.18 MI 79.56 NA 0.0976 MD 6.63 EM 47.43 GR 5.82

BORANE-TRIS(DIBUTYLAMINO)PHOSPHINE  
CA 55. 3410000. UNKNOWCAL D 0.7643 NO3883.0 04444444 T -0.  
C 24 H 57 B 1 N 3 P 1  
MW 429.54 MI 81.05 NA 0.0878 MD 6.11 EM 48.67 GR 5.22

ETHYLDIPROPYLSILICYL BORATE  
CA 53. 4110000. LIQUIDAND D 0.8768 NO 487.0 04444444 T -0.  
C 24 H 57 B 1 O 3 Si 3  
MW 488.81 MI 84.16 NA 0.0949 MD 6.16 EM 45.96 GR 4.97

1,3,5-TRIBUTYL-2,4,6-TRISUBSTITUTEDBORAZINE  
CA 54. 6378000. UNKNOWEST D 0.9300 NO1652.0 04444444 T -0.  
C 24 H 57 B 3 N 6  
MW 462.23 MI 85.77 NA 0.1039 MU 6.91 EM 52.87 GR 6.41

A 329

1,3,5-TRI-tert-BUTYL-2,4,6-TRIS(18C-6-BUTYLAMINO)BORAZINE  
CA 54. 63700000.00000000 0.9300 NO1655.0 04444444 T -0.  
C 24 H 57 B 3 N 6  
MW 462.23 MI 85.77 NA 0.1039 MD 6.91 EM 52.87 GR 8.41

1,3,5-TRI-tert-BUTYL-2,4,6-TRIS(18C-6-BUTYLAMINO)BORAZINE  
CA 54. 63700000.00000000 0.9300 NO1655.0 04444444 T -0.  
C 24 H 57 B 3 N 6  
MW 462.23 MI 85.77 NA 0.1039 MD 6.91 EM 52.87 GR 8.41

H-TRIS-IN-BUTYL-DIMETHYL-SILYL-METHYL-1-N-TRIMETHYLBORAZINE  
A0230. 70400000.00000000 0.8855 NO4237.0 04444444 T -0.  
C 24 H 60 B 3 N 3  
MW 307.50 MI 89.34 NA 0.0939 MD 6.31 EM 54.17 GR 5.69

TRIS(DIBUTYLPHOSPHINO)BORINE  
CA 54. 97600000.00000000 1.0510 NO3886.0 04444444 T -0.  
C 24 H 60 B 3 P 3  
MW 476.13 MI 86.34 NA 0.1153 MD 8.01 EM 54.06 GR 7.22

TETRAKIS(DIBORON TETRAFLUORIDE-BIS(18C-6-BUTYLAMINO))  
CA 54. 97600000.00000000 0.9427 NO3889.0 04444444 T -0.  
C 24 H 72 B 8 P 16 N 8  
MW 863.46 MI 128.40 NA 0.0844 MD 4.73 EM 74.17 GR 4.88

1,1-DIPHENYLBORON-2-PHENYL-ACETYLENE-PYRIDINE  
CA 54. 43900000.00000000 1.3853 NO3888.0 04444444 T 138.00  
C 25 H 20 B 1 N 1  
MW 349.26 MI 82.29 NA 0.1022 MD 4.83 EM 17.55 GR 4.24

4-PHENYL-2,6-DI-PARA-TOLYLPYRYLIUM TETRAFLUOROBORATE  
CA 54. 12020000.00000000 1.1435 NO3887.0 04444444 T 274.50  
C 25 H 21 B 1 P 4 N 1  
MW 424.23 MI 48.57 NA 0.0786 MD 3.41 EM 17.50 GR 2.84

1,1-PARA-METHOXYPHENYL-PHENYL-PYRYLIUM TETRAFLUOROBORATE  
CA 54. 12020000.00000000 1.1575 NO3888.0 04444444 T 244.00  
C 25 H 21 B 1 P 4 N 1  
MW 424.23 MI 80.35 NA 0.0786 MD 3.21 EM 17.51 GR 2.68

1-PHENYLBORINE-BENZALDEHYDE  
NACH 43970000.00000000 1.2000 NO1655.0 04444444 T -0.  
C 25 H 21 B 1 O 1  
MW 349.26 MI 43.21 NA 0.0897 MD 4.30 EM 17.21 GR 3.57

2-(1-HYDROXY-3-(10-ACETOXYPHENYL)-ALLYLIDENE)-1(2H)-NAPHTHALENE ES  
TETRAHYDRO-1(2H)-NAPHTHALENE-1,2-DIOL  
CA 54. 48000000.00000000 1.1270 NO3889.0 04444444 T -0.  
C 24 H 21 O 1  
MW 432.23 MI 48.34 NA 0.0739 MD 3.30 EM 17.20 GR 2.70

A 331

TRIPHENYL(18C-6-BUTYL-2-ISOPROPYLOXY-2-PURYL)PHOSPHONIUM FLUOROBORATE  
CA 54. 16280000.00000000 1.0194 NO3893.0 04444444 T 160.00  
C 29 H 28 B 1 F 4 O 2 P 1  
MW 478.29 MI 97.04 NA 0.0761 MD 3.59 EM 24.47 GR 3.14

LITHIUM DI-11-NAPHTHYLMETHOXYBORONIC ACID-DIETHYL ETHER  
CA 54. 10980000.00000000 1.2171 NO3896.0 04444444 T -0.  
C 28 H 28 B 1 O 3  
MW 394.26 MI 83.20 NA 0.0989 MD 5.21 EM 22.43 GR 4.17

DIMETHYLBENZYL-BORINE  
A0230. 04300000.00000000 0.9452 NO4506.0 04444444 T -0.  
C 25 H 24 B 1  
MW 360.33 MI 80.22 NA 0.0889 MD 5.11 EM 23.08 GR 4.08

TRIMETHYLBORON-TRIPHENYL-PYRYLIUM TETRAFLUOROBORATE  
CA 54. 11730000.00000000 1.1261 NO3897.0 04444444 T 145.00  
C 25 H 30 B 1 F 4 O 2 P 1  
MW 496.31 MI 80.68 NA 0.0829 MD 4.10 EM 25.93 GR 3.54

SODIUM CYANOTRIS(PARA-DIMETHYLAMINOPHENYL)-BORATE  
CA 54. 13710000.00000000 1.1490 NO3898.0 04444444 T -0.  
C 25 H 30 B 1 N 4  
MW 470.36 MI 86.71 NA 0.0934 MD 4.94 EM 32.02 GR 5.27

DI-1-NAPHTHYLBORINE  
CA 54. 36600000.00000000 1.3000 NO1661.0 04444444 T 147.00  
C 26 H 19 B 1  
MW 342.26 MI 41.03 NA 0.0439 MD 4.39 EM 15.76 GR 3.60

LITHIUM TRIPHENYL-PHENYLETHENYL-BORATE  
CA 54. 66070000.00000000 1.2881 NO3899.0 04444444 T -0.  
C 26 H 20 B 1 N 1  
MW 350.21 MI 43.04 NA 0.0954 MD 4.43 EM 16.57 GR 3.67

2,3,4,5-TETRAPHENYL-1,3,2-OXAZABOROLE  
CA 54. 19700000.00000000 1.1518 NO3900.0 04444444 T 184.00  
C 26 H 20 B 1 N 1 O 1  
MW 373.27 MI 44.09 NA 0.0819 MD 3.72 EM 17.57 GR 3.27

2,2-PRIME(ETHYNYL)ETHO-ORHO-PHENYLENEBIS(1,3-DIHYDRO-1,2,3,4-THIAZOL-2-YL)  
CA 54. 14150000.00000000 1.1306 NO3901.0 04444444 T 248.50  
C 26 H 20 B 2 N 4  
MW 410.12 MI 47.28 NA 0.0789 MD 3.34 EM 22.20 GR 3.70

ISOMER OF 2,2-PRIME(ETHYNYL)ETHO-ORHO-PHENYLENEBIS(1,3-DIHYDRO-1,2,3,4-THIAZOL-2-YL)  
CA 54. 14160000.00000000 1.1304 NO3902.0 04444444 T 227.75  
C 26 H 20 B 2 N 4  
MW 410.12 MI 47.28 NA 0.0789 MD 3.34 EM 22.20 GR 3.70

A 330

4-(PARA-DIMETHYLAMINOPHENYL)-2,6-DIPHENYL-PYRYLIUM FLUOROBORATE  
CA 54. 12280000.00000000 1.1088 NO3890.0 04444444 T -0.  
C 25 H 22 B 1 N 1  
MW 439.28 MI 50.44 NA 0.0767 MD 3.34 EM 19.32 GR 2.94

POTASSIUM TRIPHENYL-P-TOLYLBORATE  
CA 54. 15591000.00000000 1.1700 NO1322.0 04444444 T -0.  
C 25 H 22 B 1 N 1  
MW 372.37 MI 84.76 NA 0.0847 MD 4.16 EM 40.20 GR 7.61

LITHIUM TRIPHENYL-PARA-TOLYLBORATE  
CA 54. 31800000.00000000 1.1828 NO3891.0 04444444 T -0.  
C 25 H 22 B 1 N 1  
MW 349.29 MI 44.23 NA 0.0926 MD 4.81 EM 18.02 GR 3.77

2-PHENYLETHYL-DIPHENYLBORINE-PYRIDINE  
CA 54. 43900000.00000000 0.9938 NO3892.0 04444444 T 119.00  
C 25 H 24 B 1 N 1  
MW 349.29 MI 48.29 NA 0.0793 MD 4.11 EM 20.49 GR 3.51

DIBOROTOLYL-PHENYLBORONATE-PYRIDINE  
CA 54. 29300000.00000000 1.1600 NO1657.0 04444444 T 135.50  
C 25 H 24 B 1 N 1  
MW 381.29 MI 48.27 NA 0.0885 MD 4.40 EM 20.49 GR 3.75

2-(1-HYDROXY-3-(10-ACETOXYPHENYL)-ALLYLIDENE)-1(2H)-NAPHTHALENE ES  
TETRAHYDRO-1(2H)-NAPHTHALENE-1,2-DIOL  
CA 54. 48000000.00000000 1.0565 NO3893.0 04444444 T -0.  
C 25 H 24 B 1 N 1  
MW 443.29 MI 52.23 NA 0.0746 MD 3.43 EM 20.50 GR 2.93

BORANE-TRIPHENYL-PHENYLETHENYL-PHOSPHINE  
CA 54. 61240000.00000000 1.0480 NO3894.0 04444444 T 143.50  
C 25 H 24 B 1 P 1  
MW 366.26 MI 48.55 NA 0.0802 MD 4.14 EM 21.23 GR 3.66

AMMONIUM TRIPHENYL-PARA-TOLYLBORATE  
CA 54. 31800000.00000000 1.1800 NO1658.0 04444444 T -0.  
C 25 H 24 B 1 N 1  
MW 351.31 MI 48.29 NA 0.0977 MD 5.26 EM 21.96 GR 4.44

TETRAPHENYLBORON-METHYLAMINE  
CA 54. 21000000.00000000 1.1800 NO1659.0 04444444 T -0.  
C 25 H 26 B 1 N 1  
MW 351.31 MI 48.29 NA 0.0977 MD 5.26 EM 21.96 GR 4.44

HYDROGEN TETRAPHENYLBORONATE-GUANIDINE  
CA 54. 21000000.00000000 1.1400 NO1660.0 04444444 T -0.  
C 25 H 26 B 1 N 3  
MW 374.33 MI 50.45 NA 0.0913 MD 4.71 EM 24.11 GR 4.37

A 332

TRIPHENYLETHENYL-BORANE-DIMETHYLAMINE  
CA 54. 93120000.00000000 1.2300 NO1662.0 04444444 T -0.  
C 26 H 22 B 1 N 1  
MW 359.29 MI 45.10 NA 0.0930 MD 4.54 EM 19.04 GR 3.93

DI-1-NAPHTHYLBORINE-AMMONIA  
CA 54. 18700000.00000000 1.2800 NO1663.0 04444444 T 171.50  
C 26 H 22 B 1 N 1  
MW 359.29 MI 45.10 NA 0.0930 MD 4.72 EM 19.04 GR 4.09

2,6,6-TRI-PARA-TOLYLPYRYLIUM FLUOROBORATE  
CA 54. 12280000.00000000 1.1093 NO3903.0 04444444 T 311.00  
C 26 H 23 B 1 F 4 O 1  
MW 418.24 MI 51.18 NA 0.0780 MD 3.51 EM 18.99 GR 2.89

4-(PARA-METHOXY-PHENYL)-2,6-DI-PARA-TOLYLPYRYLIUM FLUOROBORATE  
CA 54. 12280000.00000000 1.1168 NO3904.0 04444444 T 319.00  
C 26 H 23 B 1 F 4 O 2  
MW 434.29 MI 52.17 NA 0.0772 MD 3.41 EM 18.99 GR 2.81

2,4,6-TRIS(PARA-METHOXYPHENYL)PYRYLIUM TETRAFLUOROBORATE  
CA 54. 12020000.00000000 1.13 NO3905.0 04444444 T -0.  
C 26 H 23 B 1 F 4 O 4  
MW 486.26 MI 54.15 NA 0.0793 MD 3.37 EM 18.92 GR 2.77

TRIPHENYLBORINE-PARATOLYLBORANE  
NACH 43970000.00000000 1.2000 NO1664.0 04444444 T -0.  
C 26 H 23 B 1 O 1  
MW 362.29 MI 46.02 NA 0.0918 MD 4.59 EM 18.69 GR 3.73

LITHIUM-DIPHENYLDI-ORTHO-TOLYLBORATE  
CA 54. 15440000.00000000 1.1466 NO3906.0 04444444 T -0.  
C 26 H 24 B 1 N 1  
MW 359.24 MI 47.04 NA 0.0917 MD 4.68 EM 19.50 GR 3.80

2-AMINOETHYL-BIS(4-NIPHENYLBORONATE)  
CA 54. 80390000.00000000 0.9902 NO1665.0 04444444 T 217.00  
C 26 H 24 B 1 N 1 O 1  
MW 377.31 MI 48.09 NA 0.0729 MD 3.64 EM 20.51 GR 3.11

ETHYLENE TETRAPHENYL-BORATE  
CA 54. 44720000.00000000 1.0330 NO 324.0 04444444 T -0.  
C 26 H 24 B 2 O 2  
MW 434.12 MI 52.44 NA 0.0739 MD 3.35 EM 20.83 GR 2.91

POTASSIUM-PARA-DIMETHYLAMINOPHENYL-TRIPHENYLBORATE  
CA 54. 13710000.00000000 1.1227 NO3907.0 04444444 T -0.  
C 26 H 25 B 1 N 1  
MW 401.41 MI 49.04 NA 0.0936 MD 4.21 EM 43.50 GR 7.33

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335
METHYLSULPHONIUM TETRAPHENYLBORATE
  CA 52.1430ORGAN. SOLIDCAL D 0.9787 NO3916.0 04444444 F 149.00
  C 27 H 29 N 1 O 1 S 1
  MW 412.61 MI 54.19 MA 0.0772 MD 4.14 EM 23.87 GR 3.41

THIS-D-IPARA-TOLYLBORYLENEMANNITOL
  CA 54.2136ORGAN. SOLIDEST U 1.3500 NO1674.0 04444444 F 163.00
  C 27 H 30 N 1 O 5
  MW 401.69 MI 59.72 MA 0.1008 MU 4.69 EM 25.90 GR 4.37

TRIMETHYLANMONIUM TETRAPHENYLBORATE
  CA 54.2100ORGAN. SOLIDEST D 1.1800 NO1675.0 04444444 F -0.
  C 27 H 30 N 1 N 1
  MW 379.56 MI 53.91 MA 0.1010 MU 5.62 EM 24.92 GR 4.67

PROPYLAMMONIUM TETRAPHENYLBORATE
  CA 54.1178ORGAN.UNKNOWEST D 1.1800 NO1676.0 04444444 F -0.
  C 27 H 30 N 1 N 1
  MW 379.56 MI 53.91 MA 0.1010 MU 5.62 EM 24.92 GR 4.67

TRI-B-VINYLTRI-N-BENZYLBORAZOLE
  CA 55.4429ORGAN.UNKNOWCAL D 0.9346 NO3917.0 04444444 F -0.
  C 27 H 30 B 3 N 3
  MW 429.02 MI 57.99 MA 0.0761 MD 3.94 EM 29.86 GR 3.92

TRI-B-VINYLTRI-M-TOLYLBORAZOLE
  CA 55.4429ORGAN.UNKNOWCAL D 0.9346 NO3918.0 04444444 F -0.
  C 27 H 30 B 3 N 3
  MW 429.02 MI 57.99 MA 0.0761 MD 3.94 EM 29.86 GR 3.92

2,4,6-TRIALLYL-1,3,5-TRIPHENYLBORAZINE
  CA 54.9860ORGAN. SOLIDEST D 1.2500 NO1677.0 04444444 F 99.00
  C 27 H 30 B 3 N 3
  MW 429.02 MI 57.99 MA 0.1018 MU 5.26 EM 29.86 GR 5.24

TRIMESITYLBORANE
  CA 51.1284ORGAN. SOLIDEST D 1.1000 NO1679.0 04444444 F 191.00
  C 27 H 33 B 1
  MW 368.38 MI 55.84 MA 0.1004 MD 5.94 EM 26.03 GR 4.68

TRISUBETA-METHYLPHENYLETHYLBORINE
  CA 54.8580ORGAN.UNKNOWEST D 1.1000 NO1678.0 04444444 F -0.
  C 27 H 33 B 1
  MW 368.38 MI 55.84 MA 0.1004 MD 5.94 EM 26.03 GR 4.68

SODIUM TRIMESITYLBORATE
  CA 50.0400ORGAN. SOLIDCAL D 1.1188 NU3719.0 04444444 F -0.
  C 27 H 33 B 1 Na 1
  MW 391.37 MI 57.03 MA 0.0782 MU 5.68 EM 29.94 GR 5.16

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A 337

## S-NONYL BORATE

CA 49.1083ORGAN, LIQUIDKNO D 0.8600 NO 382.0 04444444 T -0.  
C 27 H 57 B 1 O 3  
MW 440.57 MI 82.81 NA 0.0974 MD 6.70 EM 43.66 GR 5.13

## NONYL BORATE

CA 47.1045ORGAN, UNKNOWKNO D 0.8575 NO 383.0 04444444 T -0.  
C 27 H 57 B 1 O 3  
MW 440.57 MI 82.81 NA 0.0974 MD 6.68 EM 43.66 GR 5.12

## 3-METHYL-1-ISOBUTYL BUTYL BORATE

CA 52.1324ORGAN, UNKNOWKNO D 0.8600 NO 3921.0 04444444 T -0.  
C 27 H 57 B 1 O 3  
MW 440.57 MI 82.81 NA 0.0974 MD 6.70 EM 43.66 GR 5.13

## 1,3,5-TRISUBUTYL-2,4,6-TRISOPENTYLBORAZINE

CA 53.1209ORGAN, SOLIDEST D 0.8300 NO 1089.0 04444444 T 34.00  
C 27 H 60 B 3 N 3  
MW 450.26 MI 87.99 NA 0.0981 MD 6.69 EM 51.88 GR 5.78

## TRIISOPROPYLSILICYL BORATE

CA 53.4110ORGAN, LIQUIDKNO D 0.8662 NO 489.0 04444444 T -0.  
C 27 H 62 B 1 O 3  
MW 530.89 MI 92.59 NA 0.0910 MD 6.19 EM 50.41 GR 4.95

## DISUBUTYLMETHYLSILICYL BORATE

CA 53.4110ORGAN, LIQUIDKNO D 0.8736 NO 489.0 04444444 T -0.  
C 27 H 62 B 1 O 3  
MW 530.89 MI 92.59 NA 0.0918 MD 6.24 EM 50.41 GR 5.00

## BORANE-ALUMINUM HYDRIDE-3-ALUMINUM TRIISOPROPYLATE

CA 54.2980ORGAN, LIQUIDKNO D 1.2282 NO 3922.0 04444444 T -0.  
C 27 H 79 Al 4 B 3 O 9  
MW 684.26 MI 113.93 NA 0.1282 MD 8.11 EM 67.64 GR 7.31

## DI-9-ANTHRACENIC ACID

CA 52.1631ORGAN, SOLIDEST D 1.2500 NO 1690.0 04444444 T 145.00  
C 28 H 18 B 1 O 4  
MW 382.28 MI 43.64 NA 0.0860 MD 3.74 EM 15.79 GR 3.11

## 4,9-DIHYDROXY-9,10-PERYLENEQUINONE BIS(BORODACETATE)

CA 52.1986ORGAN, UNKNOWKNO D 1.2721 NO 3923.0 04444444 T -0.  
C 28 H 20 B 2 O 12  
MW 570.11 MI 58.50 NA 0.0799 MD 2.69 EM 17.93 GR 2.41

## POTASSIUM NAPHTHYLTRIPHENYLBORATE

CA 54.4893ORGAN, SOLIDEST D 1.2000 NO 1324.0 04444444 T -0.  
C 28 H 22 B 1 K 1  
MW 408.40 MI 67.19 NA 0.0895 MD 3.89 EM 40.23 GR 7.12

A 339

## LITHIUM TETRA-PARA-TOLYLBORATE

CA 54.9680ORGAN, SOLIDCAL D 1.0873 NO 3930.0 04444444 T -0.  
C 28 H 28 B 1 Li 1  
MW 382.29 MI 52.66 NA 0.0902 MD 4.80 EM 22.47 GR 3.85

## TETRAMETHYLANMONIUM-BIS(2,2-PYRIMIDINYL)BORATE

CA 50.1373ORGAN, SOLIDEST D 1.1800 NO 1694.0 04444444 T 370.00  
C 28 H 28 N 4 B 1  
MW 389.36 MI 52.72 NA 0.0982 MD 5.11 EM 23.47 GR 4.28

## 2-ALLYL-4-METHYL-1,3,5,6-TETRAPHENYLBORAZINE

CA 54.8869ORGAN, UNKNOWKNO D 1.3000 NO 1695.0 04444444 T -0.  
C 28 H 28 B 1 N 3  
MW 419.02 MI 86.80 NA 0.1013 MD 4.99 EM 26.41 GR 5.07

## BUTYLANMONIUM TETRAPHENYLBORATE

CA 53.2100ORGAN, SOLIDEST D 1.1800 NO 1696.0 04444444 T -0.  
C 28 H 32 B 1 N 1  
MW 393.39 MI 56.72 NA 0.1025 MD 5.78 EM 26.41 GR 4.77

## HYDROGEN TETRAPHENYLBORATE-ISOBUTYLAMINE

CA 53.2100ORGAN, SOLIDEST D 1.1800 NO 1697.0 04444444 T -0.  
C 28 H 32 B 1 N 1  
MW 393.39 MI 56.72 NA 0.1025 MD 5.78 EM 26.41 GR 4.77

## HYDROGEN TETRAPHENYLBORATE-SEC-BUTYLAMINE

CA 53.2100ORGAN, SOLIDEST D 1.1800 NO 1698.0 04444444 T -0.  
C 28 H 32 B 1 N 1  
MW 393.39 MI 56.72 NA 0.1025 MD 5.78 EM 26.41 GR 4.77

## HYDROGEN TETRAPHENYLBORATE-DIBUTYLAMINE

CA 53.2100ORGAN, SOLIDEST D 1.1800 NO 1699.0 04444444 T -0.  
C 28 H 32 B 1 N 1  
MW 393.39 MI 56.72 NA 0.1025 MD 5.78 EM 26.41 GR 4.77

## TETRAMETHYLANMONIUM TETRAPHENYLBORATE

CA 54.1178ORGAN, UNKNOWKNO D 1.1000 NO 1700.0 04444444 T -0.  
C 28 H 32 B 1 N 1  
MW 393.39 MI 56.72 NA 0.1025 MD 5.78 EM 26.41 GR 4.77

## TETRAMETHYLANMONIUM TRIPHENYLPHOSPHORATE

CA 52.1972ORGAN, UNKNOWKNO D 1.1500 NO 1701.0 04444444 T -0.  
C 28 H 32 B 1 N 1 O 1  
MW 409.39 MI 57.71 NA 0.0976 MD 5.41 EM 26.41 GR 4.47

## BIS(1-PARA-METHYLANIPHENYLPHOSPHINE)DECABORANE

CA 52.0970ORGAN, SOLIDCAL D 1.1078 NO 4907.0 04444444 T -0.  
C 28 H 44 B 10 N 4  
MW 606.84 MI 83.32 NA 0.0916 MD 4.84 EM 54.62 GR 8.01

A 339

## LITHIUM NAPHTHYLTRIPHENYLBORATE

CA 54.9180ORGAN, SOLIDCAL D 1.2712 NO 3924.0 04444444 T -0.  
C 28 H 22 B 1 Li 1  
MW 376.24 MI 48.66 NA 0.0950 MD 4.48 EM 18.07 GR 3.68

## CYANOTRIPHENYLBORON DERIV OF QUINOLINE

CA 52.1278ORGAN, UNKNOWKNO D 1.2000 NO 1691.0 04444444 T -0.  
C 28 H 23 B 1 N 2  
MW 398.73 MI 48.79 NA 0.0885 MD 4.17 EM 20.88 GR 3.79

## SODIUM TETRAIPHENYLETHINYLBORATE

CA 50.1273ORGAN, UNKNOWKNO D 1.2199 NO 3925.0 04444444 T -0.  
C 28 H 24 B 1 Na 1  
MW 394.31 MI 48.86 NA 0.0911 MD 4.47 EM 23.39 GR 4.33

## 5,5-DIETHYL-1,10,11-DIHYDRO-12H-DIBENZ[18]PENTAPYRROLE

CA 50.1640ORGAN, SOLIDEST D 1.2600 NO 1692.0 04444444 T 145.50  
C 28 H 24 B 2 O 1  
MW 398.14 MI 49.61 NA 0.0981 MD 4.65 EM 20.85 GR 4.04

## 1-ETHOXY-1-PHTHALANYLTRIPHENYLPHOSPHONIUM FLUOBORATE

CA 52.1828ORGAN, UNKNOWKNO D 1.1196 NO 3926.0 04444444 T -0.  
C 28 H 26 B 1 F 4 O 2 P 1  
MW 512.51 MI 58.12 NA 0.0765 MD 3.42 EM 23.05 GR 3.03

## AMMONIUM NAPHTHYLTRIPHENYLBORATE

CA 54.9859ORGAN, UNKNOWKNO D 1.2600 NO 1693.0 04444444 T -0.  
C 28 H 26 B 1 N 1  
MW 387.34 MI 50.72 NA 0.1010 MD 5.18 EM 22.00 GR 4.38

## POTASSIUM TETRA-PARA-TOLYLBORATE

CA 50.1640ORGAN, SOLIDEST D 1.1700 NO 1325.0 04444444 T -0.  
C 28 H 28 B 1 K 1  
MW 414.45 MI 53.19 NA 0.0904 MD 4.76 EM 46.85 GR 7.59

## POTASSIUM TETRAKIS(PARAMETHOXYPHENYL)BORATE

CA 52.3940ORGAN, SOLIDCAL D 1.1422 NO 3927.0 04444444 T -0.  
C 28 H 28 B 1 K 1 O 4  
MW 478.45 MI 57.15 NA 0.0822 MD 4.03 EM 46.68 GR 6.42

## LITHIUM TETRA-ORTHO-TOLYLBORATE

CA 50.1373ORGAN, UNKNOWKNO D 1.0873 NO 3928.0 04444444 T -0.  
C 28 H 28 B 1 Li 1  
MW 382.29 MI 52.66 NA 0.0902 MD 4.80 EM 22.47 GR 3.85

## LITHIUM TETRA-META-TOLYLBORATE

CA 50.1373ORGAN, SOLIDCAL D 1.0873 NO 3929.0 04444444 T -0.  
C 28 H 28 B 1 Li 1  
MW 382.29 MI 52.66 NA 0.0902 MD 4.80 EM 22.47 GR 3.85

A 340

## 4,6-EPIME-VINYLBORATE

CA 54.9680ORGAN, SOLIDCAL D 1.0873 NO 3930.0 04444444 T -0.  
C 28 H 28 B 1 Li 1  
MW 382.29 MI 52.66 NA 0.0902 MD 4.80 EM 22.47 GR 3.85

## TETRAETHYL BORATE

CA 52.9800ORGAN, SOLIDEST D 1.1000 NO 1694.0 04444444 T -0.  
C 28 H 32 B 1  
MW 446.60 MI 86.80 NA 0.1013 MD 4.99 EM 26.41 GR 5.07

## BIS(2-ETHOXY-1,2,3,4-TETRAHYDRO-2H-PYRIMIDIN-5-YL)BORATE

CA 54.8869ORGAN, UNKNOWKNO D 1.3000 NO 1701.0 04444444 T -0.  
C 28 H 28 B 1 O 4  
MW 498.01 MI 91.15 NA 0.0915 MD 4.11 EM 47.44 GR 4.98

## TRIPHENYLETHINYLBORANE-PERFLUORINE

CA 54.9910ORGAN, SOLIDEST D 1.2000 NO 1702.0 04444444 T -0.  
C 28 H 20 B 1 F 3  
MW 393.31 MI 49.53 NA 0.0915 MD 4.58 EM 17.62 GR 4.24

## LITHIUM 1-NAPHTHYLDIPHENYLPHOSPHONIUM FLUOBORATE

CA 51.1544ORGAN, SOLIDCAL D 1.2309 NO 3937.0 04444444 T -0.  
C 29 H 24 B 1 Li 1 F 1  
MW 390.27 MI 49.47 NA 0.0939 MD 4.56 EM 17.53 GR 3.71

## 12-ETHOXY-12H-1-BENZOPYRAN 2-YLTRIPHENYLPHOSPHONIUM FLUOBORATE

CA 52.1828ORGAN, SOLIDCAL D 1.1196 NO 3938.0 04444444 T 127.00  
C 29 H 26 B 1 F 4 O 2 P 1  
MW 524.32 MI 58.13 NA 0.0773 MD 3.40 EM 23.04 GR 3.03

## HYDROGEN TETRAPHENYLBORATE-PYRIMIDINE

CA 54.1178ORGAN, UNKNOWKNO D 1.2000 NO 1703.0 04444444 T -0.  
C 29 H 28 B 1 N 1  
MW 399.35 MI 51.51 NA 0.0933 MD 4.71 EM 22.32 GR 3.79

## HYDROGEN TETRAPHENYLBORATE-PYRIMIDINE

CA 53.9300ORGAN, UNKNOWKNO D 1.2000 NO 1704.0 04444444 T -0.  
C 29 H 32 B 1 N 1  
MW 405.40 MI 57.51 NA 0.1026 MD 5.71 EM 26.42 GR 4.71

## 2,6-DIMETHOXYPHENYL BORATE TRIPHENYL

CA 51.2720ORGAN, SOLIDCAL D 0.9925 NO 3934.0 04444444 T 108.00  
C 29 H 32 B 1 N 1 O 2  
MW 549.40 MI 60.44 NA 0.0723 MD 3.48 EM 26.44 GR 2.84

## BIS(PARA-DIMETHYLANIPHENYLPHOSPHINE)TRIMETHYLPHOSPHINE-BORON

CA 52.1828ORGAN, SOLIDCAL D 0.9777 NO 3935.0 04444444 T 160.00  
C 29 H 44 B 1 P 4  
MW 532.40 MI 73.71 NA 0.0812 MD 4.51 EM 16.15 GR 3.98

A 345

DIBUTYLTHIOLYL BORATE  
CA 51.4110ORGAN, LIQUID D 0.8875 NO 525.0 04444444 T -0.  
C 31 M 49 B 1 0 381 3  
MW 372.97 MI 101.02 MA 0.0943 MD 6.44 EM 54.86 GR 5.12

TRIMETHYL DIISOPENTYLPHOSPHONOBORANE  
CA 51.1602ORGAN, UNKNOWN D 0.8103 NO3952.0 04444444 T -0.  
C 40 M 22 B 3 2 1  
MW 558.29 MI 103.20 MA 0.0902 MD 6.29 EM 62.96 GR 5.50

LITHIUM FLUORENYLTRIPHENYLBORATE  
CA 44.5892ORGAN, SOLID D 1.2832 NO3953.0 04444444 T -0.  
C 31 M 26 B 1 1 1  
MW 416.29 MI 31.09 MA 0.0953 MD 4.48 EM 19.38 GR 3.65

D1-1-NAPHTHYLPHENYLBORINE-PYRUIINE  
CA 51.1876ORGAN, SOLID D 1.1374 NO3954.0 04444444 T 214.00  
C 31 M 24 B 1 N 1  
MW 421.36 MI 51.15 MA 0.0832 MD 3.90 EM 20.38 GR 3.35

TRIS(1-NAPHTHYLBORINE SODIUM METHOIDE  
CA 51.1284ORGAN, SOLID D 1.3058 NO3955.0 04444444 T -0.  
C 31 M 24 B 1 N 1  
MW 466.34 MI 52.28 MA 0.0921 MD 4.23 EM 23.40 GR 4.12

TRIPYLIUM TETRAPHENYLBORANE  
CA 51.1703ORGAN, SOLID D 1.2000 NO1731.0 04444444 T 120.80  
C 31 M 27 B 1 1 1  
MW 610.38 MI 53.05 MA 0.0935 MD 4.76 EM 21.71 GR 3.82

PHOTOPILOLENE DERIV.  
CA 52.4992ORGAN, UNKNOWN D 1.1500 NO1732.0 04444444 T -0.  
C 31 M 27 B 1 0 1  
MW 426.38 MI 54.07 MA 0.0878 MD 4.39 EM 21.71 GR 3.53

HYDROGEN TETRAPHENYLBORATE-BENZYLAMINE  
CA 51.2100ORGAN, SOLID D 1.2000 NO1753.0 04444444 T -0.  
C 31 M 30 B 1 N 1  
MW 427.41 MI 57.15 MA 0.0966 MD 5.07 EM 24.99 GR 4.23

1,3-DITHIOLAN-2-YLIDENE DIETHYLAMMONIUM TETRAPHENYLBORATE  
CA 52.2193ORGAN, SOLID D 0.9802 NO3956.0 04444444 T -0.  
C 31 M 34 B 1 N 1 S 2  
MW 454.56 MI 63.75 MA 0.0760 MD 4.05 EM 29.44 GR 3.51

TRIMETHYLTRITRIPHENYLIUM FLUOBORATE  
CA 52.11732ORGAN, SOLID D 1.0208 NO3957.0 04444444 T 99.00  
C 31 M 42 B 1 F 4 U 3 P 1  
MW 580.47 MI 77.54 MA 0.0821 MD 4.43 EM 34.84 GR 3.69

A 347

MFTA-DITHIOLAN-2-YLIDENE DIETHYLAMMONIUM TETRAPHENYLBORATE  
CA 52.2143ORGAN, SOLID D 0.9818 NO3958.0 04444444 T 184.00  
C 32 M 36 B 1 N 1 S 2  
MW 509.59 MI 86.56 MA 0.0757 MD 4.09 EM 30.92 GR 3.52

N-DICETHYLPHOSPHONIDIUM TETRAPHENYLBORATE  
CA 52.6194ORGAN, SOLID D 1.2000 NO1757.0 04444444 T -0.  
C 32 M 38 B 1 N 1  
MW 447.48 MI 65.96 MA 0.1065 MD 6.16 EM 30.87 GR 4.99

ALLONORMUSCARINE TETRAPHENYLBORONATE  
CA 53.4290ORGAN, SOLID D 0.8802 NO3965.0 04444444 T 135.00  
C 32 M 38 B 1 N 1  
MW 479.48 MI 67.94 MA 0.0751 MD 4.20 EM 10.80 GR 3.41

LITHIUM TETRAISOPROPYLPHOSPHONATE  
CA 50.1731ORGAN, UNKNOWN D 1.0946 NO3966.0 04444444 T -0.  
C 32 M 40 B 1 N 1  
MW 498.46 MI 72.18 MA 0.0955 MD 5.29 EM 35.86 GR 4.72

RISIPANA-ETHOXYPHENYL PHOSPHONATE  
CA 52.6194ORGAN, SOLID D 1.0317 NO4908.0 04444444 T -0.  
C 32 M 48 B 10 D 4 P 2  
MW 666.89 MI 90.24 MA 0.0857 MD 4.56 EM 53.31 GR 5.06

THIADICYCLIMORANE  
CA 54.7590ORGAN, UNKNOWN D 0.7384 NO3967.0 04444444 T -0.  
C 32 M 70 B 2  
MW 476.55 MI 97.86 MA 0.0913 MD 6.53 EM 54.67 GR 5.10

TRIMETHYLTRIPHENYLBORANE  
CA 50.1621ORGAN, SOLID D 1.2000 NO1734.0 04444444 T 198.00  
C 31 M 27 B 1  
MW 434.40 MI 54.70 MA 0.0910 MD 4.49 EM 21.74 GR 3.62

SODIUM TRIS(2-METHYLNAPHTHYL)BORATE  
CA 50.1621ORGAN, UNKNOWN D 1.2333 NO3968.0 04444444 T -0.  
C 33 M 27 B 1 N 1  
MW 457.59 MI 55.91 MA 0.0973 MD 4.46 EM 25.63 GR 4.23

HYDROGEN TETRAPHENYLBORATE-QUINOLINE  
CA 53.2100ORGAN, SOLID D 1.2000 NO1758.0 04444444 T -0.  
C 33 M 28 B 1 N 1  
MW 449.61 MI 56.77 MA 0.0913 MD 4.50 EM 23.55 GR 3.79

TRIMETHYLPHENYLAMMONIUM TETRAPHENYLBORATE  
CA 54.2237ORGAN, SOLID D 1.2000 NO1759.0 04444444 T 214.50  
C 33 M 34 B 1 N 1  
MW 555.46 MI 82.77 MA 0.0996 MD 5.40 EM 27.96 GR 4.44

A 346

4-EPHINE-1-PROPYLPHOSPHONIC CYCLOHEXANOL(1,6,12-ETHYL-1-PROPYLTRIETHYLENE  
CA 54.8631ORGAN, SOLID D 1.0000 NO1735.0 04444444 T 210.00  
C 31 M 28 B 2 0 4  
MW 548.44 MI 90.99 MA 0.0999 MD 6.37 EM 45.86 GR 5.04

LITHIUM TETRAISOPROPYLPHENYLBORATE  
CA 54.2947ORGAN, SOLID D 1.4633 NO3958.0 04444444 T -0.  
C 32 M 20 B 1 N 1  
MW 422.27 MI 67.90 MA 0.1000 MD 4.17 EM 16.66 GR 3.48

AMMONIUM TETRAISOPHENYLETHYLBORATE  
CA 51.3390ORGAN, UNKNOWN D 1.2000 NO1759.0 04444444 T -0.  
C 32 M 24 B 1 N 1  
MW 433.37 MI 61.46 MA 0.0867 MD 4.00 EM 20.60 GR 3.44

NITRON SALT OF DIPYRUCATECHOL BORIC ACID  
CA 44.3827ORGAN, SOLID D 1.1373 NO3959.0 04444444 T -0.  
C 32 M 25 B 1 N 4 0 4  
MW 540.60 MI 60.13 MA 0.0762 MD 3.17 EM 24.38 GR 3.12

LITHIUM ETHYLTRIPHENYLBORATE  
CA 49.1559ORGAN, SOLID D 1.2445 NO3960.0 04444444 T -0.  
C 32 M 26 B 1 N 1  
MW 428.52 MI 57.90 MA 0.0943 MD 4.55 EM 21.07 GR 3.69

CYCLOC DIESER OF BENZENEBORONIC ACID WITH MANNITOL 3,4-DIBENZOATE  
CA 52.1828ORGAN, SOLID D 1.1276 NO3961.0 04444444 T -0.  
C 32 M 28 B 2 0 8  
MW 562.22 MI 63.78 MA 0.0770 MD 3.38 EM 23.86 GR 2.88

D1-1-NAPHTHYLTHIO-TOLYLBORINE-PYRUIINE  
CA 51.1876ORGAN, SOLID D 1.2000 NO1754.0 04444444 T 204.00  
C 32 M 28 B 1 N 1  
MW 435.39 MI 53.96 MA 0.0896 MD 4.32 EM 22.07 GR 3.66

3-METHYLBENZOTHIADIZOLIUM TETRAPHENYLBORATE  
CA 53.9360ORGAN, SOLID D 1.0902 NO3964.0 04444444 T -0.  
C 32 M 28 B 1 N 1 S 3  
MW 469.46 MI 57.26 MA 0.0801 MD 3.92 EM 24.29 GR 3.40

TRIPHENYLBORINE-BENZYL SULFIDE  
CA 52.4668ORGAN, UNKNOWN D 1.2000 NO1756.0 04444444 T -0.  
C 32 M 24 B 1 S 1  
MW 456.46 MI 57.19 MA 0.0906 MD 4.59 EM 23.95 GR 3.79

HYDROGEN TETRAPHENYLBORATE-CAFFEINE  
CA 53.2100ORGAN, UNKNOWN D 0.9986 NO3962.0 04444444 T -0.  
C 32 M 31 B 1 N 4 0 2  
MW 514.45 MI 86.15 MA 0.0750 MD 3.62 EM 28.98 GR 3.39

A 348

ALLONORMUSCARINE TETRAPHENYLBORATE  
CA 53.2272ORGAN, SOLID D 1.0216 NO3969.0 04444444 T 198.50  
C 33 M 30 B 1 N 1 0 2  
MW 491.49 MI 88.75 MA 0.0861 MD 4.76 EM 30.89 GR 3.87

MUSCARINE TETRAPHENYLBORATE  
CA 52.16397ORGAN, SOLID D 1.0216 NO3970.0 04444444 T 190.50  
C 33 M 30 B 1 N 1 U 2  
MW 491.49 MI 88.75 MA 0.0861 MD 4.76 EM 30.89 GR 3.87

TRIMETHYL CYCLOHEXYLAMMONIUM TETRAPHENYLBORATE  
CA 52.3702ORGAN, UNKNOWN D 0.9632 NO3971.0 04444444 T -0.  
C 33 M 40 B 1 N 1  
MW 601.51 MI 88.77 MA 0.0865 MD 5.03 EM 32.36 GR 4.07

DEKYMUSCARINE TETRAPHENYLBORONATE  
CA 53.5317ORGAN, SOLID D 0.9757 NO3972.0 04444444 T 225.00  
C 33 M 40 B 1 N 1 0 2  
MW 477.51 MI 89.76 MA 0.0859 MD 4.92 EM 32.36 GR 3.98

ALLONORMUSCARINE TETRAPHENYLBORONATE  
CA 53.5317ORGAN, SOLID D 0.9757 NO3973.0 04444444 T 175.00  
C 33 M 40 B 1 N 1 0 2  
MW 491.51 MI 70.75 MA 0.0853 MD 4.82 EM 32.36 GR 3.90

MUSCARINE TETRAPHENYLBORONATE  
CA 54.6020ORGAN, SOLID D 0.9378 NO3974.0 04444444 T 183.00  
C 33 M 40 B 1 N 1 0 2  
MW 493.51 MI 70.75 MA 0.0853 MD 4.82 EM 32.36 GR 3.90

TRIMETHYL(ETHANEDIO-4-HYDROXY-5-METHYL-2-FURFURYLIAMMONIUM) TETRAPHENYLBORATE  
CA 53.5317ORGAN, UNKNOWN D 0.9878 NO3975.0 04444444 T -0.  
C 33 M 40 B 1 N 1 0 2  
MW 493.51 MI 70.75 MA 0.0853 MD 4.82 EM 32.36 GR 3.90

EPITALLOMUSCARINE TETRAPHENYLBORATE  
CA 53.5317ORGAN, UNKNOWN D 0.9878 NO3976.0 04444444 T -0.  
C 33 M 40 B 1 N 1 0 2  
MW 493.51 MI 70.75 MA 0.0853 MD 4.82 EM 32.36 GR 3.90

IPINUSCARINE TETRAPHENYLBORATE  
CA 52.16397ORGAN, SOLID D 0.9878 NO3977.0 04444444 T 180.50  
C 33 M 40 B 1 N 1 0 2  
MW 493.51 MI 70.75 MA 0.0853 MD 4.82 EM 32.36 GR 3.90

4-(4-CHLORO-DIETHYL-TOLYLDIETHYL-1-BUTYL) BORATE  
CA 54.2758ORGAN, LIQUID D 1.1018 NO3978.0 04444444 T -0.  
C 33 M 42 B 1 CL 3 0 6  
MW 651.89 MI 79.24 MA 0.0807 MD 4.28 EM 61.09 GR 62.72

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1,3,5-TRIPHENYLBORANE
  LA 54. 88300GAM. SOLIDICAL D 1.2093 N03990.0 04444444 1 142.00
  C 36 H 27 B 3 O 1
  M# 540.04 MI 82.04 MA 0.0837 MD 3.64 EM 24.98 GM 3.32

2,2-PHINE-BIPHENYLENECHLORONIUM TETRAPHENYLBORONATE
  CA 326. 37300GAM. UNKNOWICAL D 1.1760 N03991.0 04444444 1 -0.
  C 36 H 29 B 1 CL 1
  M# 506.90 MI 59.33 MA 0.0829 MD 3.91 EM 216.97 GM 30.32

BORON TRICHLORIDE-TRIS(PHENYL)-DIAZOPHENOL
  GM 13. 20100GAM. UNKNOWICAL D 1.1804 N03992.0 04444444 1 -0.
  C 36 H 30 B 3 CL 3 N 6 O 3
  M# 711.87 MI 73.12 MA 0.0722 MD 2.96 EM 411.81 GM 80.54

LITHIUM TRIPHENYLSILOXANETETRAFLUOROBORATE
  RI244. 55900GAM. SOLIDICAL D 1.2644 N04009.0 04444444 1 -0.
  C 36 H 30 B 3 LI 1 Si 1
  M# 508.49 MI 82.60 MA 0.0935 MD 4.44 EM 74.85 GM 3.72

TRIPHENYLBORATE OF THE PASSIFLORA INCARNATA ALCALOID
  CA 49. 26700GAM. SOLIDICAL D 1.0798 N04296.0 04444444 1 164.00
  C 16 H 30 N 1 M 2
  M# 501.67 MI 82.27 MA 0.0808 MD 3.89 EM 26.19 GM 1.34

DIPHENYLBORANILINE
  CA 531. 64300GAM. SOLIDICAL D 1.1017 N03993.0 04444444 1 399.00
  C 36 H 30 B 3 N 3
  M# 537.12 MI 65.28 MA 0.0800 MD 3.71 EM 30.01 GM 4.71

TRIS(3-DIPHENYLAMINO)BORAZINE
  CA 544. 12900GAM. SOLIDICAL D 1.0097 N03994.0 04444444 1 301.00
  C 36 H 33 B 3 N 6
  M# 580.53 MI 69.59 MA 0.0755 MD 3.58 EM 32.67 GM 3.94

2,4,6-TRIAMINOLITHIUM-3,5-TRIPHENYLBORAZINE
  CA 544. 87700GAM. UNKNOWICAL D 1.0331 N03995.0 04444444 1 -0.
  C 36 H 33 B 3 N 6
  M# 582.17 MI 71.40 MA 0.0768 MD 3.53 EM 35.45 GM 3.74

TRIS(1,2,3,4-TETRAHYDRO-CARBAZOL-9-YL)BORINE
  CA 933. 33100GAM. SOLIDICAL D 0.9613 N03996.0 04444444 1 138.00
  C 36 H 36 B 3 N 4
  M# 521.53 MI 89.34 MA 0.0770 MD 4.00 EM 71.63 GM 3.93

1,3,5-TRIPHENYL-2,4,6-TRI--NAPHTHYL-BORAZINE
  CA 326. 62300GAM. SOLIDICAL D 0.9860 N03997.0 04444444 1 270.00
  C 36 H 36 B 3 N 3
  M# 533.11 MI 71.28 MA 0.0779 MD 3.76 EM 74.41 GM 3.76

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HYDROGEN TETRAETHYLBORATE-BIPHENORINE
CA 51.16443ORGAN.UNKNOWICAL D 0.9367 NO3984.0 04444444 T -0.
C 34 H 36.8 I 1 M 1 D 3
NM 485.49 MI 66.57 NA 0.0774 MD 4.18 EM 29.44 GR 3.42

LITHIUM ISOBUTOXY-1-NAPHTHYLODIPHENYL-BORATE DISTHERATE
CA 51.18743ORGAN.UNKNOWICAL D 1.0620 NO3985.0 04444444 T -0.
C 36 H 40 M 1 1 I 1 D 3
NM 920.50 MI 78.49 NA 0.0965 MD 3.65 EM 35.78 GR 6.60

TAT-1-NAPHTHYL BORATE-PYRIDINE
CA 51.27777ORGAN. SOLIDCAL D 1.1825 NO3986.0 04444444 T 174.00
C 35 H 26.0 I 1 M 1 D 3
NM 519.62 MI 99.36 NA 0.0814 MU 3.57 EM 22.12 GR 3.03

TKI-1-NAPHTHYL BORATE-PYRIDINE
CA 51.27777ORGAN. SOLIDCAL D 1.1825 NO3987.0 04444444 T 67.00
C 35 H 26.0 I 1 M 1 D 3
NM 519.62 MI 99.36 NA 0.0814 MU 3.57 EM 22.12 GR 3.03

I,2,3,4-TETRAHYDRO-2,2-DIMETHYLSILOQUINOLINIUM TETRAPHENYLBORATE
CA 53.97603ORGAN.UNKNOWICAL D 0.9445 NO3988.0 04444444 T -0.
C 35 H 36 C 1 N 1 I
NM 481.50 PI 66.39 NA 0.0784 MD 4.25 EM 29.46 GR 3.48

CYCLOPENTYLTRIMETHYL AMMONIUM TETRAPHENYLBORATE
CA 52.19981ORGAN. SOLIDCAL D 0.9383 NO3989.0 04444444 T 232.40
C 38 H 40 M 1 O 1 I
NM 489.36 MI 74.39 NA 0.0839 MD 5.08 EM 35.33 GR 4.08

TRICARBAZOL-9-YLBORINE
CA 536.33103ORGAN. SOLIDEST D 1.2000 NO1737.0 04444444 T 348.00
C 36 H 24.8 I 1 M 3
NM 506.43 MI 57.34 NA 0.0814 MD 3.61 EM 22.82 GR 3.24

TRISCARBAZOLEBORANE
AMGC 68.61903ORGAN. SOLIDEST D 1.2000 NO1738.0 04444444 T -0.
C 36 H 24.8 I 1 M 3
NM 506.43 MI 57.34 NA 0.0814 MD 3.61 EM 22.82 GR 3.24

THI-DKTHO BIPHENYLBORANE
CA 50.13731ORGAN. SOLIDEST D 1.2000 NO1739.0 04444444 T 202.00
C 36 H 27 B 1 I
NM 470.43 MI 57.13 NA 0.0878 MD 4.19 EM 21.74 GR 3.35

URTHO-BIPHENYLBORATE
CA 51.10308ORGAN. SOLIDEST D 1.2000 NO1740.0 04444444 T 127.00
C 34 H 27 B 1 O 3
NM 518.44 MI 40.10 NA 0.0838 MI 3.76 EM 21.74 GR 3.04

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DIPHENYLMETHANESPHINOMORPHINE										
CA	53	160820G	AN	UNACIDICAL	D	1.0902	N04399B	0	04444444	I -0.
C	36	H	30	M	3					
MA	344.07	MI	72.06	MA	0.0797	MD	3.98	EM	36.66	GR 4.05
DIPHENYLMETHANESPHINOMORPHINE TRIMER										
CA	53	162000G	AN	UNACIDICAL	D	1.0902	N04236	0	04444414	I -0.
C	36	H	30	M	3					
MA	344.07	MI	72.06	MA	0.0797	MD	3.98	EM	36.66	GR 4.05
THIAMINE TEINAPHENYLBORONATE										
CA	50	156800G	AN	SOLIDICAL	D	0.9846	N03999	0	04444444	I 187.50
C	36	M	37	M	1	N	4	U		
MA	616.94	MI	78.36	MA	0.0735	MD	3.56	EM	13.45	GR 3.22
1-METHYL-1-PHENYLETHANEDITHIUM TETRAPHENYLBORONATE										
CA	54	223700G	AN	SOLIDICAL	D	0.9278	N04000	0	04444444	I 237.50
C	36	H	38	B	1	N	1			
MA	494.55	MI	89.20	MA	0.0780	MU	4.29	EM	30.94	GR 3.44
THIETHYLBENZYLAMMONIUM TETRAPHENYLBORATE										
CA	54	223700G	AN	SOLIDICAL	D	0.8962	N04001	0	04444444	I 201.00
C	36	H	40	B	1	N	1			
MA	474.56	MI	71.20	MA	0.0772	MD	4.36	EM	32.41	GR 1.52
TRIS(1,1,2,3,4-TETRAHYDROQUINAZOL-2-IL)BORANE										
CA	52	019000G	AN	ACIDICAL	D	0.8708	N04002	0	04444444	I -0.
C	36	M	42	H	1	N	3			
MA	527.38	MI	79.34	MA	0.0744	MD	4.18	EM	36.03	GR 3.58
ULCABACANE-BIS(THIAPHENYLBORPHINE)										
CA	53	815600G	AN	SOLIDICAL	D	1.0321	N04003	0	04444444	I -0.
C	36	M	42	B	10	P	2			
MA	644.88	MI	81.52	MA	0.0805	MD	4.05	EM	48.96	GR 4.72
6-DIETHOXY-2-DIETHYLMAN-10-HEXANDYL TETRAPHENYLBORATE										
CA	52	019400G	AN	SOLIDICAL	D	0.8781	N04004	0	04444444	I 117.00
C	36	H	44	B	1	N	1	G	4	
MA	564.58	MI	79.18	MA	0.0740	MD	4.11	EM	35.35	GR 3.31
CIS-TRANS-2-PHENYLCYCLOHEXYL BORATE										
CA	51	1039300G	AN	SOLIDES	D	1.0100	N01762	0	04444444	I 101.00
C	36	M	45	M	1	U	3			
MA	536.58	MI	78.10	MA	0.0885	MU	5.10	EM	93.00	GR 3.77
TRIS(TRANS-2-PHENYLCYCLOHEXYL BORATE										
CA	52	0101700G	AN	ACIDICAL	D	1.0100	N01763	0	04444444	I 111.00
C	36	M	45	M	1	U	3			
MA	536.58	MI	78.10	MA	0.0885	MU	5.10	EM	93.00	GR 3.97

A 353

## TRIS(1S-2-PHENYLCYCLOHEXYLBORATE

CA 56.4054ORGAN, SOLIDEST D 1.0100 NO1744.0 04444444 T 129.00  
 C 36 H 43 B 1 O 3  
 MW 536.98 MI 78.10 MA 0.0885 MD 5.10 EM 35.00 GR 3.97

## TRANS-7-PHENYLCYCLOHEXYLBORATE

CA 51.10393ORGAN, SOLIDEST D 1.0100 NO1769.0 04444444 T 112.00  
 C 36 H 43 B 1 O 3  
 MW 536.98 MI 78.10 MA 0.0885 MD 5.10 EM 35.00 GR 3.97

## LIS-2-PHENYLCYCLOHEXYLBORATE

CA 51.10393ORGAN, SOLIDEST D 1.0100 NO1741.0 04444444 T 129.40  
 C 36 H 43 B 1 O 3  
 MW 536.98 MI 78.10 MA 0.0885 MD 5.10 EM 35.00 GR 3.97

TRIS(1,2,3,4,5,6,7,8-OCTAHYDRO-CANBAZOL-9-YL)BORINE  
 CA 53.331ORGAN, SOLIDEST D 0.7974 NO4009.0 04444444 T 329.00  
 C 36 H 48 B 1 N 3  
 MW 533.02 MI 81.34 MA 0.0732 MD 4.32 EM 40.44 GR 3.64

## 1,3,5-TRICYCLOHEXYL-2,4,6-TRIPHENYLBORAZINE

CA 55.4042ORGAN, UNKNOWCAL D 0.8195 NO4006.0 04444444 T -0.  
 C 36 H 48 B 3 N 3  
 MW 555.26 MI 83.28 MA 0.0740 MD 4.27 EM 63.22 GR 3.84

## 2,4,6-TRICYCLOHEXYL-1,3,5-TRIPHENYLBORAZINE

CA 54.884ORGAN, SOLIDEST D 1.2000 NO1766.0 04444444 T -0.  
 C 36 H 48 B 3 N 3  
 MW 555.26 MI 83.28 MA 0.1084 MD 6.25 EM 63.22 GR 3.83

## TETRAMETHYL AMMONIUM TETRAISOPRA-DIMETHYLAMINOPHENYLBORATE

CA 56.10719ORGAN, UNKNOWCAL D 0.9473 NO4007.0 04444444 T -0.  
 C 36 H 52 B 1 N 5  
 MW 565.67 MI 87.48 MA 0.0882 MD 5.25 EM 45.53 GR 4.59

TRIS(1,2,3,4,5,6,7,8,9-OCTAHYDRO-CANBAZOLE  
 ANCC 68. 614ORGAN, LIQUIDCAL D 0.8308 NO4008.0 04444444 T -0.  
 C 36 H 60 B 1 N 3  
 MW 549.72 MI 93.36 MA 0.0877 MD 5.63 EM 49.24 GR 4.82

## TRIS(1S-2-CYCLOHEXYLCYCLOHEXYLBORATE

CA 52.10142ORGAN, SOLIDEST D 1.0100 NO1767.0 04444444 T 209.00  
 C 36 H 63 B 1 O 1  
 MW 550.72 MI 96.10 MA 0.1054 MD 6.91 EM 48.21 GR 5.79

## TRIS(TRANS-2-CYCLOHEXYLCYCLOHEXYLBORATE

CA 52.10142ORGAN, SOLIDEST D 1.0000 NO1768.0 04444444 T -0.  
 C 36 H 63 B 1 O 3  
 MW 550.72 MI 96.10 MA 0.1043 MD 6.84 EM 48.21 GR 5.23

A 355

## TRIS(ETHYLDIISOPHENYLSILYL)BORATE

CA 55.4110ORGAN, LIQUIDCAL D 0.8757 NO 846.0 04444444 T -0.  
 C 36 H 41 B 3 I 3  
 MW 557.13 MI 117.88 MA 0.0946 MD 6.50 EM 63.76 GR 3.12

## ALUMINUM TRIHYDROGEN TRISURANE TRIS(1,1-SEC-BUTYLALUMINATE

CA 54.297ORGAN, SOLIDEST D 0.9004 NO4012.0 04444444 T -0.  
 C 36 H 43 Al 3 O 9  
 MW 810.52 MI 189.24 MA 0.0432 MD 6.22 EM 81.00 GR 3.42

## BUTETAPHENINE HYDROGEN TETRAPHENYLBORATE

CA 53.14422ORGAN, UNKNOWCAL D 0.9164 NO4013.0 04444444 T -0.  
 C 37 H 41 B 1 N 2 O 2  
 MW 556.97 MI 76.00 MA 0.0755 MD 4.07 EM 34.24 GR 3.40

## PROCAIN HYDROGEN TETRAPHENYLBORATE

CA 53.14422ORGAN, UNKNOWCAL D 0.9169 NO4014.0 04444444 T -0.  
 C 37 H 41 B 1 N 2 O 2  
 MW 556.97 MI 76.00 MA 0.0755 MD 4.07 EM 34.24 GR 3.40

## 3-ETHYL-2-(1S-1S-ETHYL-2-THIAZOLIDINYLIDENE PROPENYL)-2-THIAZOLINIUM

TETRAPHENYLBORATE  
 CA 51.936ORGAN, UNKNOWCAL D 0.9800 NO4015.0 04444444 T -0.  
 C 37 H 41 B 1 N 2 S 2  
 MW 588.69 MI 76.68 MA 0.0753 MD 4.03 EM 35.75 GR 3.51

## P-PARA-1-HEXAPHENYLMETHYLENEBIPHOSPHENIUM PERHYDRODECABORATE

AD263. 097ORGAN, SOLIDEST D 1.0480 NO4010.0 04444444 T -0.  
 C 37 H 42 B 10 P 2  
 MW 656.89 MI 80.33 MA 0.0809 MD 4.03 EM 48.98 GR 4.70

## LITHIUM PARA-CHLOROPHENYL-1-NAPHTHYLPHENYL ORTHO-TOLYLBORATE DIETHERA

IL  
 CA 51.15440ORGAN, SOLIDEST D 1.1498 NO4016.0 04444444 T -0.  
 C 37 H 43 B 1 Cl 1 I 1 O 2  
 MW 572.97 MI 78.13 MA 0.0985 MD 5.42 EM 22.07 GR 28.77

## NITRON TRIHYDROTECHOL BORATE

CA 44.382ORGAN, SOLIDEST D 1.1200 NO4017.0 04444444 T 179.00  
 C 38 H 31 B 1 N 4 O 6  
 MW 650.92 MI 72.97 MA 0.0757 MD 3.21 EM 79.08 GR 3.02

## 1-NAPHTHYL BORATE-12,4,5-TRIMETHYLPYRIDINE

CA 51.2777ORGAN, LIQUIDCAL D 1.0969 NO4018.0 04444444 T -0.  
 C 38 H 32 N 1 N 1 O 3  
 MW 561.50 MI 87.79 MA 0.0797 MD 3.76 EM 26.57 GR 3.11

## 2-NAPHTHYL BORATE-12,4,5-TRIMETHYLPYRIDINE

CA 51.2777ORGAN, SOLIDEST D 1.0965 NO4019.0 04444444 T 110.00  
 C 38 H 32 B 1 N 1 O 3  
 MW 561.50 MI 87.79 MA 0.0797 MD 3.76 EM 26.57 GR 3.11

A 354

## CIS-TRANS-2-CYCLOHEXYLCYCLOHEXYLBORATE

CA 51.10393ORGAN, SOLIDEST D 1.0000 NO1769.0 04444444 T 185.00  
 C 36 H 43 B 1 O 3  
 MW 550.72 MI 96.10 MA 0.1043 MD 6.84 EM 48.21 GR 5.23

## TRIPHENYLBORINE-TRIPHENYLPHOSPHINE

CA 50.10030ORGAN, SOLIDEST D 0.8106 NO4009.0 04444444 T 210.25  
 C 36 H 66 B 3 P 1  
 MW 540.72 MI 97.46 MA 0.0880 MD 5.96 EM 62.33 GR 4.72

## 1,3,5-TRICYCLOHEXYL-2,4,6-TRIS(1S-2-CYCLOHEXYLCYCLOHEXYLBORAZINE

CA 54.617ORGAN, SOLIDEST D 1.2000 NO1770.0 04444444 T 53.50  
 C 36 H 69 B 3 N 6  
 MW 618.46 MI 107.49 MA 0.1296 MD 8.06 EM 61.87 GR 7.23

## TRIMERIC DICYCLOHEXYLPHOSPHINOBORINE

CA 53.16062ORGAN, UNKNOWCAL D 0.8456 NO4010.0 04444444 T -0.  
 C 36 H 72 B 3 P 3  
 MW 430.36 MI 108.06 MA 0.0873 MD 5.82 EM 63.06 GR 5.10

## TRIDODECYLBORINE

CA 53.10013ORGAN, UNKNOWEST D 0.8100 NO1771.0 04444444 T -0.  
 C 36 H 75 B 1  
 MW 518.82 MI 105.13 MA 0.0989 MD 7.05 EM 57.01 GR 5.36

## TRIS(1-PENTYLHEPTYL)BORINE

CA 53.19880ORGAN, UNKNOWEST D 0.8100 NO1772.0 04444444 T -0.  
 C 36 H 75 B 1  
 MW 518.82 MI 105.13 MA 0.0989 MD 7.05 EM 57.01 GR 5.36

## TRI-1N-DODECYLBORATE

CA 54.880ORGAN, UNKNOWEST D 0.8500 NO1773.0 04444444 T -0.  
 C 36 H 75 B 1 O 3  
 MW 566.82 MI 108.10 MA 0.0976 MD 6.77 EM 57.02 GR 5.15

## 2,6,8-TRIMETHYL-4-NONYLBORATE

CA 51.10393ORGAN, LIQUIDCAL D 0.8340 NO 387.0 04444444 T -0.  
 C 36 H 75 B 1 O 3  
 MW 566.82 MI 108.10 MA 0.0958 MD 6.65 EM 57.02 GR 5.05

## BORON TRICHLORIDE-3-DODECYLAMINE

CA 48.11710ORGAN, SOLIDEST D 0.8278 NO4011.0 04444444 T 166.00  
 C 36 H 81 B 1 Cl 3 N 3  
 MW 673.26 MI 117.94 MA 0.0873 MD 8.00 EM 64.99 GR 47.99

## TRIS(1,1-DIBUTYL)SILYLBORATE

CA 53.4110ORGAN, LIQUIDCAL D 0.8753 NO 845.0 04444444 T -0.  
 C 36 H 81 B 1 I 3  
 MW 657.13 MI 117.88 MA 0.0746 MD 6.50 EM 63.76 GR 3.12

A 356

## TRIETHYLBORON TRIS(1-PHENYLETHINYL)BORATE

CA 51.16322ORGAN, SOLIDEST D 1.2000 NO1774.0 04444444 T -0.  
 C 36 H 35 B 1 O 1  
 MW 518.52 MI 87.74 MA 0.0944 MD 4.88 EM 77.69 GR 3.66

## 2,2-DIETHYL-4,5-DIETHYLBORON TRIS(1-PHENYLETHINYL)BORATE

CA 49.12439ORGAN, UNKNOWCAL D 0.9966 NO4070.0 04444444 T -0.  
 C 38 H 36 B 1 N 1  
 MW 517.53 MI 68.82 MA 0.0798 MD 4.18 EM 29.50 GR 3.42

## 2-PHENYLAminoethyl-PARA-AMINOBENZONATE SALT WITH HYDROGEN TETRAPHENYLBORATE

CA 53.14422ORGAN, UNKNOWCAL D 1.0294 NO4021.0 04444444 T -0.  
 C 38 H 43 B 1 N 2 O 2  
 MW 570.60 MI 78.87 MA 0.0857 MD 4.67 EM 35.72 GR 3.84

## O-ETHYLTRIS(1-PHENYLETHINYL)BORATE BORON TETRAPHENYLBORATE

CA 50.2237ORGAN, SOLIDEST D 1.2000 NO1775.0 04444444 T -0.  
 C 38 H 44 B 1 N 1  
 MW 525.60 MI 76.82 MA 0.1056 MD 6.05 EM 35.37 GR 4.86

## LITHIUM TRIPHENYLBORONBORATE-PENTARIS(PURFURYL)ALCOHOL

CA 44.382ORGAN, UNKNOWCAL D 0.9316 NO4022.0 04444444 T -0.  
 C 38 H 36 B 1 Cl 1 I 1 O 10  
 MW 690.63 MI 98.66 MA 0.0802 MD 4.55 EM 43.14 GR 3.91

## ETHYLPYRIDINIUM TRIS(1-PHENYLETHINYL)BORATE

CA 51.49800ORGAN, UNKNOWCAL D 1.1402 NO4023.0 04444444 T -0.  
 C 39 H 30 B 1 N 1  
 MW 523.50 MI 83.63 MA 0.0835 MD 3.94 EM 25.12 GR 3.30

## N-TRITOLYL-8-TRIPHENYLBORAZOLE

CA 53.4042ORGAN, UNKNOWCAL D 1.0336 NO4024.0 04444444 T -0.  
 C 39 H 36 B 3 N 1  
 MW 579.20 MI 73.71 MA 0.0792 MD 3.87 EM 34.46 GR 3.70

## N-TRIPHENYL-N-TRIPARA-TOLYLBORAZINE

CA 54.10330ORGAN, SOLIDEST D 1.0336 NO4025.0 04444444 T 326.00  
 C 39 H 36 B 3 N 3  
 MW 579.20 MI 73.71 MA 0.0792 MD 3.87 EM 34.46 GR 3.70

## 2,4,6-TRIBENZYL-1,3,5-TRIPHENYLBORAZINE

CA 54.4430ORGAN, UNKNOWCAL D 1.0336 NO4026.0 04444444 T -0.  
 C 39 H 36 B 3 N 3  
 MW 579.20 MI 73.71 MA 0.0792 MD 3.87 EM 34.46 GR 3.70

## 1,3,5-TRIBENZYL-2,4,6-TRIPHENYLBORAZOLE

CA 55.4042ORGAN, UNKNOWCAL D 1.0336 NO4027.0 04444444 T -0.  
 C 39 H 36 B 3 N 3  
 MW 579.20 MI 73.71 MA 0.0792 MD 3.87 EM 34.46 GR 3.70



A 357

THIAB-(PARA-TOLYL)METHYL-N-CYCLOHEXYLBORAZOLE  
CA 35:10013ORGAN, UNKNOWNCAL D 0.9888 ND4029.0 04444444 T -0.  
C 40 H 54 B 3 N 1  
MW 307.34 MI 91.71 NA 0.0838 MU 4.94 EM 47.07 GR 4.36

DICYCLOHEXYLCARBONYLBORATE  
CA 35:10393ORGAN, SOLIDEST D 0.9200 ND1776.0 04444444 T 156.20  
C 39 H 60 B 1 O 3  
MW 596.80 MI 104.93 NA 0.0971 MD 6.41 EM 92.66 GR 4.89

THIS(ODDECYL)N-ETHYLPHOSPHINOBORINE  
CA 34:4786ORGAN, UNKNOWNCAL D 0.8004 ND4029.0 04444444 T -0.  
C 39 H 90 B 1 P 3  
MW 686.93 MI 128.49 NA 0.0903 MD 6.34 EM 76.32 GR 5.38

JAYBIL(DI-1-NAPHTHYLBORANE)  
CA 30:11164ORGAN, SOLIDCAL D 1.2352 ND4030.0 04444444 T 191.00  
C 40 H 28 B 2 O 1  
MW 346.30 MI 61.53 NA 0.0862 MD 3.61 EM 23.98 GR 3.27

SOLUOP SALT OF 4-TRIPHENYL-2-(TRIPHENYLBORONYL)-BUTYRONITRILE  
CA 42:10710ORGAN, SOLIDCAL D 1.2396 ND4031.0 04444444 T -0.  
C 40 H 33 B 1 N 1 NA 1  
PW 561.92 MI 88.85 NA 0.0913 MU 4.34 EM 31.23 GR 4.13

BIS(THIOPHENYL)SILYL-BUTANEBORONATE  
CA 34:6649ORGAN, UNKNOWNCAL D 1.0520 ND4032.0 04444444 T -0.  
C 40 H 39 B 1 O 2 S 2  
MW 618.75 MI 76.87 NA 0.0787 MD 3.99 EM 32.22 GR 3.30

2-NAPHTH-1-IRIETHYLAMMONIUM TETRAPHENYLBORATE  
CA 34:2239ORGAN, SOLIDCAL D 0.9278 ND4033.0 04444444 T 196.00  
C 40 H 42 B 1 N 1  
MW 547.60 MI 76.44 NA 0.0782 MD 4.30 EM 33.94 GR 3.47

BIS(THIOPHENYLETHYL)PHOSPHINIUMPERHYDRODECABORATE  
AD253, 0970ORGAN, SOLIDCAL D 1.1058 ND4513.0 04414410 T 167.00  
C 40 H 50 B 10 P 2  
MW 700.99 MI 94.76 NA 0.0900 MD 4.75 EM 54.90 GR 5.22

ETHANOLYLAMMONIUM TETRAPHENYLBORATE  
CA 34:8692ORGAN, UNKNOWNCAL D 0.8683 ND4034.0 04444444 T -0.  
C 40 H 58 B 1 N 1  
MW 561.72 MI 90.44 NA 0.0842 MD 3.21 EM 44.21 GR 4.12

HIS(ODDECYL)N-ETHYLPHOSPHINOBORATE  
CA 34:6649ORGAN, UNKNOWNCAL D 0.9480 ND4035.0 04444444 T -0.  
C 40 H 63 B 1 O 2 S 2  
MW 642.94 MI 100.07 NA 0.0846 MD 3.60 EM 49.84 GR 4.43

A 359

UNIMOD-TRIPHENYLBORONPHOSPHORYL(THIOPHENYLBORYL)BENZENE  
CA 34:2237ORGAN, SOLIDCAL D 1.1408 ND4045.0 04444444 T 294.00  
C 42 H 34 B 3 P 1  
MW 580.53 MI 70.32 NA 0.0832 MU 4.02 EM 28.85 GR 3.41

THIOPHENYLBORONPHOSPHORYL(THIOPHENYLBORYL)BENZENE  
CA 34:2239ORGAN, SOLIDCAL D 1.1408 ND4046.0 04444444 T -0.  
C 42 H 34 B 3 P 1  
MW 580.53 MI 70.32 NA 0.0832 MU 4.02 EM 28.85 GR 3.41

BIS(QUINOLINOL)DIETHYLPHOSPHINOBORATE  
CA 32:12788ORGAN, UNKNOWNCAL D 1.0913 ND4246.0 04444444 T -0.  
C 42 H 35 B 2 N 2  
PW 610.88 MI 74.11 NA 0.0798 MD 3.77 EM 29.92 GR 3.22

TRIPHENYLBORONIUM TETRAPHENYLBORATE  
CA 32:9005ORGAN, UNKNOWNCAL D 1.0431 ND4047.0 04444444 T -0.  
C 42 H 35 B 1 O 1  
MW 566.96 MI 70.98 NA 0.0825 MU 4.07 EM 27.76 GR 3.23

HIS(THIOPHENYL)SILYL)BENZENEBORONATE  
CA 34:6649ORGAN, UNKNOWNCAL D 1.1368 ND4048.0 04444444 T -0.  
C 42 H 35 B 1 O 2 S 2  
MW 638.74 MI 74.44 NA 0.0812 MD 3.82 EM 29.32 GR 3.20

TRIP-TRIPHENYLBORONATE  
CA 31:2628ORGAN, UNKNOWNCAL D 1.0104 ND4049.0 04444444 T -0.  
C 42 H 39 B 3  
PW 594.94 MI 73.99 NA 0.0812 MU 4.28 EM 30.84 GR 3.37

HIS(THIOPHENYL)SILYL)CYCLOHEXYLBORONATE  
CA 34:6649ORGAN, UNKNOWNCAL D 1.0474 ND4050.0 04444444 T -0.  
C 42 H 41 B 1 O 2 S 2  
MW 644.74 MI 80.49 NA 0.0788 MU 4.01 EM 33.72 GR 3.30

UNIMOD HYDROGEN TETRAPHENYLBORATE  
CA 34:10445ORGAN, UNKNOWNCAL D 0.9831 ND4056.0 04444444 T -0.  
C 42 H 42 B 1 N 1 O 3  
PW 619.63 MI 81.03 NA 0.0774 MU 4.01 EM 33.98 GR 3.25

HIS(THIOPHENYL)SILYL)BENZENE  
CA 33:4110ORGAN, LIQUIDKNO D 1.0860 ND 847.0 04444444 T -0.  
C 42 H 43 B 1 O 1 S 1  
PW 632.91 MI 86.74 NA 0.0819 MU 4.25 EM 37.44 GR 3.51

1,3,5-TRISUBSTITUTED-2,4,6-TRISUBSTITUTED-BORAZOLE  
CA 34:8378ORGAN, UNKNOWNCAL D 0.9396 ND4052.0 04444444 T -0.  
C 42 H 45 B 1 N 3  
MW 686.33 MI 88.35 NA 0.0750 MU 3.82 EM 44.35 GR 3.77

A 360

TETRAKIS(DIETHYL)DISBORANE  
CA 33:10013ORGAN, UNKNOWNCAL D 0.7551 ND4036.0 04444444 T -0.  
C 40 H 54 B 2  
MW 586.78 MI 118.34 NA 0.0917 MD 6.51 EM 65.07 GR 5.04

TETRAKIS(DIETHYL)DISBORANE  
CA 33:10013ORGAN, UNKNOWNCAL D 0.7820 ND4037.0 04444444 T -0.  
C 40 H 54 B 2 N 4  
MW 642.78 MI 122.62 NA 0.0898 MD 6.14 EM 49.39 GR 5.08

FLAVOPYRIMIDINE TETRAPHENYLBORATE  
CA 32:13794ORGAN, SOLIDCAL D 1.0630 ND4038.0 04444444 T 223.00  
C 41 H 35 B 1 N 2  
MW 566.97 MI 71.32 NA 0.0806 MD 3.96 EM 29.90 GR 3.38

SODIUM TRI(THIOPHENYL)TRIPHENYLPENTENYLBORONATE  
CA 34:5852ORGAN, UNKNOWNCAL D 1.1594 ND4039.0 04444444 T -0.  
C 41 H 36 B 1 NA 2  
MW 585.54 MI 72.60 NA 0.0893 MD 4.43 EM 36.28 GR 4.46

MORPHINE HYDROGEN TETRAPHENYLBORATE  
CA 33:16465ORGAN, UNKNOWNCAL D 0.9993 ND4040.0 04444444 T -0.  
C 41 H 40 B 1 N 1 O 3  
MW 605.80 MI 78.22 NA 0.0777 MD 3.98 EM 32.49 GR 3.23

CCCAINE HYDROGEN TETRAPHENYLBORATE  
CA 33:16465ORGAN, UNKNOWNCAL D 0.9762 ND4041.0 04444444 T -0.  
C 41 H 42 B 1 N 1 O 4  
MW 623.81 MI 81.21 NA 0.0786 MD 3.98 EM 33.96 GR 3.20

SCOPOLAMINE HYDROGEN TETRAPHENYLBORATE  
CA 34:8777ORGAN, SOLIDCAL D 0.9762 ND4042.0 04444444 T 106.00  
C 41 H 42 B 1 N 1 O 4  
MW 623.81 MI 81.21 NA 0.0786 MD 3.98 EM 33.96 GR 3.20

ATROPINE HYDROGEN TETRAPHENYLBORATE  
CA 33:16465ORGAN, UNKNOWNCAL D 0.9940 ND4043.0 04444444 T -0.  
C 41 H 44 B 1 N 1 O 3  
MW 609.83 MI 82.22 NA 0.0784 MU 4.09 EM 35.43 GR 3.29

CONDENSED POLYCYCLIC WITH PHOSPHORUS AND TRIPHENYLBORON  
CA 34:2238ORGAN, SOLIDCAL D 1.1861 ND4297.0 04444444 T 284.29  
C 42 H 32 B 1 P 1  
MW 578.91 MI 68.32 NA 0.0844 MD 3.95 EM 27.38 GR 3.38

2,2-PRIME-BIPHENYLBLENPHENYLBORONIUM TETRAPHENYLBORATE  
CA 33:12796ORGAN, UNKNOWNCAL D 1.1359 ND4044.0 04444444 T -0.  
C 42 H 33 B 1 O 1  
MW 564.95 MI 68.98 NA 0.0834 MD 4.00 EM 26.29 GR 3.18

A 360

THIS(PANAMETHYL)DI(THIOPHENYL)PHOSPHINOBORINE  
AD151, 1820ORGAN, UNKNOWNCAL D 0.9993 ND4239.0 04444444 T -0.  
C 42 H 48 B 2 P 2  
MW 636.44 MI 86.62 NA 0.0882 MD 4.89 EM 42.33 GR 4.31

TRISILIPAKA-TOLYLPHOSPHINOBORINE  
CA 34:10445ORGAN, SOLIDCAL D 1.1189 ND4051.0 04444444 T 200.00  
C 42 H 48 B 3 P 3  
MW 678.23 MI 88.42 NA 0.0883 MD 4.77 EM 45.55 GR 4.52

DIMETHYLPHOSPHINODIMETHYLBORINE TRIMEX  
AD142, 0280ORGAN, UNKNOWNCAL D 1.1189 ND4240.0 04444444 T -0.  
C 42 H 48 B 3 P 3  
MW 678.23 MI 88.42 NA 0.0883 MD 4.77 EM 45.55 GR 4.52

BIS(THIOPHENYL)PROPYLPHOSPHINIUM PERHYDRODECABORATE  
AD263, 0970ORGAN, SOLIDCAL D 1.0776 ND4311.0 04414410 T 167.00  
C 42 H 54 B 10 P 2  
MW 779.04 MI 100.38 NA 0.0894 MD 4.81 EM 57.87 GR 5.15

PARA-DIETHYLPHENYL BORATE  
CA 31:2777ORGAN, SOLIDEST D 1.0000 ND1777.0 04444444 T 82.00  
C 42 H 63 B 1 O 3  
MW 626.79 MI 100.46 NA 0.0470 MD 6.05 EM 48.31 GR 4.44

7-ETHYL-2-ALPHYLUNDEC-4-AL-BORATE  
CA 33:14004ORGAN, LIQUIDKNO D 0.8460 ND 843.0 04444444 T -0.  
C 42 H 87 B 1 O 3  
MW 650.98 MI 124.96 NA 0.0478 MD 6.81 EM 63.92 GR 5.16

DI(1-NAPHTHYL)DI(1-NAPHTHYLBORONATE  
CA 34:10967ORGAN, SOLIDCAL D 1.2643 ND4053.0 04444444 T 101.00  
C 44 H 36 B 2 S 1  
MW 664.79 MI 79.56 NA 0.0912 MD 4.13 EM 30.07 GR 3.45

DI-1-NAPHTHYLBORONIC ACID-PARA-DIOXANE  
CA 34:10912ORGAN, UNKNOWNCAL D 1.0756 ND4054.0 04444444 T -0.  
C 44 H 38 B 2 O 4  
MW 652.43 MI 74.56 NA 0.0805 MD 3.84 EM 31.39 GR 3.17

HIS(BENZYL)DI(THIOPHENYL)SILYL)PHENYLBORONATE  
CA 34:6649ORGAN, UNKNOWNCAL D 1.0831 ND4055.0 04444444 T -0.  
C 44 H 39 B 1 O 2 S 1  
MW 638.71 MI 78.85 NA 0.0805 MU 3.98 EM 31.51 GR 3.22

PAPAVERINE HYDROGEN TETRAPHENYLBORATE  
CA 33:16465ORGAN, UNKNOWNCAL D 1.0175 ND4057.0 04444444 T -0.  
C 44 H 42 B 1 N 1 O 3  
PW 619.65 MI 87.64 NA 0.0777 MU 3.90 EM 34.01 GR 3.18

A 361

BOACN COMPLEX OF 4-DIMETHYLANILINO-1,4,4A,9,12,12A-HEXAHYDRO-3,7,10,11,12-PENTAHYDROXY-6-METHYL-1,12-DIOXA-8-NAPHTHACENECARBOXALDE  
CA 53.14110ORGAN,UNKNOWNCAL D 1.0888 NO4038.0 04444444 T -0.  
C 44 H 42 B 2 M 4 U 18  
Mn 936.49 MI 101.68 NA 0.0712 MD 2.94 EM 38.66 GR 2.71

TRIMETHYLANMONIUM SALT OF 4-TRIPHENYL-2-(TRIPHENYLBORONYL)BUTYRIC  
NITRILE  
CA 52.19710ORGAN, SOLIDCAL D 0.9456 NO4059.0 04444444 T 223.00  
C 46 H 49 B 1 N 2  
Mn 612.68 MI 63.75 NA 0.0778 MD 4.18 EM 37.28 GR 3.47

DIBUCATINE HYDROGEN TETRAPHENYLBORATE  
CA 53.144220ORGAN,UNKNOWNCAL D 1.0230 NO4060.0 04444444 T -0.  
C 44 H 50 B 1 N 3 U 2  
Mn 663.73 MI 91.80 NA 0.0852 MD 4.64 EM 42.04 GR 3.90

HISITRIPHENYLBUTYL PHOSPHINIUMIPERHYDRODECABORATE  
A0263. D070ORGAN, SOLIDCAL D 1.0827 NO4312.0 04414410 T 167.00  
C 44 H 50 B 1 O 10 P 2  
Mn 757.10 MI 106.00 NA 0.0888 MD 4.86 EM 60.84 GR 5.10

TRIPHENYLBORINE-VINYLFENYLENE-TRIPHENYLBORONATUM  
CA 52.19710ORGAN,UNKNOWNCAL D 1.2246 NO4300.0 04414444 T -0.  
C 43 H 38 B 1 NA 1  
Mn 612.61 MI 76.63 NA 0.0923 MD 4.58 EM 33.90 GR 4.08

TRIPHENYLBORINE-TETRAPHENYLBORATE  
CA 52.12780ORGAN,UNKNOWNCAL D 1.0019 NO4299.0 01444444 T -0.  
C 45 H 43 B 1 N 2 U 2  
Mn 654.67 MI 86.54 NA 0.0779 MD 3.96 EM 35.84 GR 3.30

LOCHNERAN TETRAPHENYLBORATE  
CA 53.33040ORGAN, SOLIDCAL D 0.9469 NO4061.0 04444444 T 201.50  
C 49 H 47 B 1 O 2  
Mn 698.71 MI 80.54 NA 0.0767 MD 4.07 EM 38.77 GR 3.36

TRIMETHYLANMONIUM-TRISIPHENYL-1-TRITYPEPENTEN-3-VL-2-BORATE  
CA 52.19400ORGAN, SOLIDCAL D 0.9185 NO4301.0 04444444 T 222.50  
C 45 H 48 B 1 N 1  
Mn 613.71 MI 88.49 NA 0.0780 MD 4.53 EM 38.42 GR 3.46

TETRAMETHYLANMONIUM TRI-DITHIO-BIPHENYL PHENYLBORATE  
CA 50.137310ORGAN,UNKNOWNCAL D 0.9883 NO4062.0 04444444 T -0.  
C 46 H 46 B 1 N 1  
Mn 621.89 MI 83.30 NA 0.0798 MD 4.21 EM 35.50 GR 3.40

MARCOITINE HYDROGEN TETRAPHENYLBORATE  
CA 53.154690ORGAN,UNKNOWNCAL D 1.0323 NO4063.0 04444444 T -0.  
C 46 H 46 B 1 N 1 O 2  
Mn 713.84 MI 90.73 NA 0.0789 MD 3.73 EM 35.51 GR 3.01

A 363

TRIS(DIMETHYL(DIBUTYLPHOSPHINO)BORINE)  
CA 56.97870ORGAN,UNKNOWNCAL D 0.7938 NO4072.0 04444444 T -0.  
C 48 H 108 B 3 P 3  
Mn 810.78 MI 153.78 NA 0.0907 MD 6.37 EM 89.67 GR 5.29

TRIPHENYLBORON-PROFLAYINE  
CA 53.21310ORGAN, SOLIDCAL D 1.1449 NO4073.0 04444444 T 293.50  
C 49 H 41 B 1 N 3 O 6  
Mn 832.81 MI 95.66 NA 0.0792 MD 3.60 EM 42.48 GR 3.52

TRIMETHYLANMONIUM TRIPHENYLBORONATUM  
CA 52.19710ORGAN, SOLIDCAL D 0.9457 NO4074.0 04444444 T 170.50  
C 46 H 50 B 1 N 1  
Mn 663.77 MI 91.73 NA 0.0787 MD 4.29 EM 34.46 GR 3.43

TETRAMETHYLANMONIUM TRIPHENYLBORONATUM  
CA 52.19710ORGAN,UNKNOWNCAL D 0.9356 NO4075.0 04444444 T -0.  
C 50 H 53 B 1 N 2 O 2  
Mn 724.81 MI 98.59 NA 0.0786 MD 4.12 EM 43.26 GR 3.36

TRIS(9-O-ETHYL-6-THIODECYLBORATE  
CA 52.13260ORGAN, SOLIDEST D 0.8500 NO1780.0 04444444 T -0.  
C 51 H 105 B 1 O 3  
Mn 777.22 MI 150.25 NA 0.0990 MD 6.92 EM 79.27 GR 5.22

HISITETRAMETHYLANMONIUM-1,3,5-CYCLOOTATRIENE BIS(1-TRIPHENYLBORONATE  
CA 52.19710ORGAN, SOLIDCAL D 0.9700 NO4076.0 04444444 T 220.00  
C 52 H 62 B 2 N 4  
Mn 736.72 MI 108.20 NA 0.0886 MD 4.96 EM 51.78 GR 4.10

TRIPHENYLBORANE POLYMER  
CA 46.4720ORGAN, SOLIDCAL D 1.1451 NO4315.0 04444444 T -0.  
C 57 H 117 B 13 O 13  
Mn 1091.17 MI 184.60 NA 0.1167 MD 7.40 EM 104.81 GR 8.82

TRIS(1-TRIPHENYLSILYL)TRIMETHYLBORANE  
CA 54.43800ORGAN,UNKNOWNCAL D 1.1200 NO 380.0 04444444 T -0.  
C 54 H 45 B 1 O 3  
Mn 837.04 MI 96.46 NA 0.0777 MD 3.63 EM 37.64 GR 3.03

2,4,6-TRIMETHYLBORANE  
CA 54.88600ORGAN, SOLIDEST D 1.0000 NO1710.0 04444444 T -0.  
C 54 H 50 B 3 M 3  
Mn 813.80 MI 139.86 NA 0.1035 MD 6.66 EM 74.33 GR 5.50

HISITRIBENZO-HYDROXY-3-KI-CHLORIDE-6-KI-AL-BORONIC ACID  
CA 53.220760ORGAN, SOLIDCAL D 0.8216 NO4302.0 04444444 T 215.00  
C 54 H 95 B 1 O 3  
Mn 803.17 MI 142.68 NA 0.0879 MD 5.85 EM 71.98 GR 4.44

A 362

BIS(1-TETRAMETHYLANMONIUM)ACETYLENEBIS(1-TRIPHENYLBORONATE)  
CA 52.197260ORGAN, SOLIDCAL D 0.9923 NO4084.0 04444444 T 250.00  
C 46 H 54 B 2 M 2  
Mn 684.80 MI 95.34 NA 0.0888 MD 4.92 EM 45.31 GR 4.12

BRUCINE HYDROGEN TETRAPHENYLBORATE  
CA 53.210000ORGAN,UNKNOWNCAL D 0.9854 NO4069.0 04444444 T -0.  
C 47 H 47 B 1 N 2 O 4  
Mn 714.73 MI 92.14 NA 0.0765 MD 3.90 EM 38.81 GR 3.22

PARA-OCYLPHENYL BORATE-PYRIDINE  
CA 51.27770ORGAN, SOLIDCAL D 0.8733 NO4066.0 04444444 T 112.00  
C 47 H 48 B 1 N 1 O 3  
Mn 705.89 MI 111.08 NA 0.0828 MD 5.07 EM 53.16 GR 3.96

TETRAPHENYLBORONATUM TETRAPHENYLBORATE  
CA 47.32600ORGAN, SOLIDCAL D 1.1141 NO4067.0 04444444 T 310.00  
C 48 H 40 B 1 P 1  
Mn 658.64 MI 81.18 NA 0.0827 MD 4.08 EM 33.35 GR 3.40

BIS(1-TRISIPARA-TOLYLISILYL)META-CHLOROPHENYLBORONATE  
CA 54.88600ORGAN,UNKNOWNCAL D 1.0758 NO4068.0 04444444 T -0.  
C 48 H 48 B 1 O 1 U 2  
Mn 757.85 MI 91.55 NA 0.0785 MD 3.93 EM 73.94 GR 19.83

TRI-B-CYCLOHEXYLTRI-N-NAPHTHYLBORAZOLE  
CA 55.44380ORGAN,UNKNOWNCAL D 1.0315 NO4069.0 04444444 T -0.  
C 48 H 50 B 3 N 3  
Mn 705.44 MI 99.00 NA 0.0872 MD 4.76 EM 47.82 GR 4.21

TRIMETHYLBORANE  
CA 54.119980ORGAN, SOLIDEST D 0.8500 NO1778.0 04444444 T -0.  
C 48 H 48 B 1  
Mn 687.14 MI 135.85 NA 0.1035 MD 7.38 EM 74.82 GR 5.57

TRIMETHYLBORATE  
CA 47.10450ORGAN, SOLIDEST D 0.8500 NO1779.0 04444444 T 43.50  
C 48 H 48 B 1 O 3  
Mn 735.14 MI 141.82 NA 0.0988 MD 6.89 EM 74.82 GR 3.21

TRIMETHYLBORON-TRIS(1-TRIMETHYLBORONATUM)  
CA 48.13710ORGAN, SOLIDCAL D 0.7719 NO4070.0 04444444 T 71.00  
C 48 H 105 B 1 F 3 M 3  
Mn 747.21 MI 131.93 NA 0.0892 MD 6.16 EM 82.68 GR 4.85

TRIMETHYLBORON-TRIS(1-TRIMETHYLBORONATUM)  
CA 48.13710ORGAN, SOLIDCAL D 0.8023 NO4071.0 04444444 T 191.00  
C 48 H 105 B 1 O 3 M 4  
Mn 658.41 MI 155.73 NA 0.0876 MD 6.08 EM 60.08 GR 37.86

A 364

1,12-DIOXA-8-DIETHYLBORATE  
CA 46.45810ORGAN, SOLIDEST D 0.9000 NO1782.0 04444444 T -0.  
C 54 H 44 B 1 O 3  
Mn 807.21 MI 146.68 NA 0.0985 MD 6.63 EM 74.92 GR 5.03

1,12-DIOXA-8-DIETHYLBORATE  
CA 54.40540ORGAN, SOLIDEST D 0.8800 NO1783.0 04444444 T -0.  
C 54 H 103 B 1 O 3  
Mn 815.25 MI 152.68 NA 0.0995 MD 6.84 EM 74.32 GR 5.17

SPERIC ACID TRIAMPHORIDE WITH BORIC ACID  
CA 54.61620ORGAN, SOLIDCAL D 0.7895 NO4077.0 04444444 T -0.  
C 54 H 105 B 1 O 4  
Mn 861.25 MI 155.65 NA 0.0859 MD 5.80 EM 74.33 GR 4.38

1,12-DIOXA-8-DIETHYLBORATE  
CA 51.103980ORGAN, SOLIDEST D 0.8500 NO1784.0 04444444 T 43.00  
C 54 H 111 B 1 O 3  
Mn 819.30 MI 158.66 NA 0.0992 MD 6.94 EM 83.72 GR 5.23

USCHAKANINE TETRAPHENYLBORONATE  
CA 54.14400ORGAN, SOLIDCAL D 1.0257 NO4078.0 04444444 T 180.00  
C 55 H 86 B 1 N 1 O 9  
Mn 895.98 MI 121.90 NA 0.0838 MD 4.55 EM 51.81 GR 3.57

MAJESTUMI-1,1,1,1-TETRAPHENYLBORONATE  
CA 51.33900ORGAN,UNKNOWNCAL D 1.2077 NO4079.0 04444444 T -0.  
C 56 H 52 B 2 M 1 O 8  
Mn 886.98 MI 108.48 NA 0.0893 MD 4.36 EM 42.39 GR 3.56

TRIS(1-TRIPHENYLSILYL)TRIMETHYLBORANE  
CA 54.109150ORGAN, LIQUIDCAL D 1.0878 NO4080.0 04444444 T -0.  
C 57 H 54 B 3 N 3  
Mn 897.81 MI 110.07 NA 0.0788 MD 3.87 EM 50.31 GR 3.60

TRIS(1-TRIMETHYLBORONATUM)BORANE  
ANG. 08. 8100ORGAN,UNKNOWNCAL D 0.8500 NO1785.0 04444444 T -0.  
C 57 H 117 B 1 N 3  
Mn 859.41 MI 167.35 NA 0.1002 MD 7.00 EM 91.41 GR 5.47

TRIS(1-TRIMETHYLBORONATUM)BORANE  
CA 52.15450ORGAN, SOLIDEST D 0.8800 NO1515.0 04444444 T 159.00  
C 57 H 120 B 1 N 3  
Mn 898.43 MI 170.35 NA 0.1028 MD 7.74 EM 93.61 GR 5.65

TRIMINE BIS(TETRAPHENYLBORONATE)  
CA 54.19680ORGAN, SOLIDCAL D 1.0047 NO4081.0 04444444 T 177.00  
C 60 H 58 B 2 N 4 C 1 S 1  
Mn 904.86 MI 115.11 NA 0.0774 MD 3.90 EM 51.39 GR 5.45

A 358

## CHYTRIMETHYL TETRAPHENYLBORATE

CA 55, 8223ORGAN, SOLIDCAL D 0.8288 NO4082.0 04444444 T 184.50  
C 61 H 68 B 1 N 1 O 13  
MW 1094.20 MI 152.32 NA 0.0008 MD 4.67 EM 68.05 GR 3.61

17,17(PRIME),17(2-PRIME)-1,3-BIS(1,3-DIMETHYLENE)TRISTEARAM-38  
ETA,1788TA-DICL

CA 54, 8223ORGAN, SOLIDCAL D 0.8703 NO4083.0 04444444 T 150.00  
C 63 H103 B 1 D 8  
MW 909.35 MI 162.94 NA 0.0081 MD 5.68 EM 70.47 GR 4.30

## TRI-N-OCTADECYLTRI-N-PROPYLBORAZIDE

CA 55, 4333ORGAN, UNKNOWCAL D 0.7485 NO4084.0 04444444 T -0.  
C 63 H132 B 3 N 3  
MW 946.23 MI 184.13 NA 0.0908 MD 4.34 EM 103.30 GR 5.03

## MAGNESIUM TETRAHIS(2-PHENYLTHIENYL)BORATE

CA 55, 4333ORGAN, UNKNOWCAL D 1.3068 NO4085.0 04444444 T -0.  
C 64 H 40 S 2 NC 1  
MW 854.98 MI 95.00 NA 0.1008 MD 4.25 EM 33.71 GR 3.98

## CARBUNYCYL TETRAPHENYLBORATE

CA 52, 9288ORGAN, SOLIDCAL D 0.9774 NO4086.0 04444444 T 150.50  
C 65 H 88 B 1 N 1 O 18  
MW 1150.25 MI 158.53 NA 0.0811 MD 4.50 EM 68.12 GR 3.49

## ALUMINUMANTIPYRINBORFLUORIDE

CA 55, 2873ORGAN, SOLIDAND D 1.3030 NO 389.0 04444444 T 118.00  
C 66 H 72AL 1 B 3 F 12 N 12 O 6  
MW 1416.84 MI 183.94 NA 0.0908 MD 9.99 EM 73.92 GR 4.09

## MAGNESIUMANTIPYRINBORFLUORIDE

CA 55, 2993ORGAN, SOLIDAND D 1.2890 NO 390.0 04444444 T -0.  
C 66 H 72 B 2 F 8NC 1 N 12 O 6  
MW 1327.36 MI 157.72 NA 0.0923 MD 4.21 EM 70.77 GR 4.14

## TRIS(1,3-NAPHTH-1,3-DIOL)-1,3,5,9,11,13-HEXATRIEN-17-YLPROPYLBORON

CA 54, 8223ORGAN, SOLIDCAL D 0.8944 NO4087.0 04444444 T 150.00  
C 66 H 93 B 1 D 6  
MW 993.29 MI 153.37 NA 0.0832 MD 5.04 EM 70.72 GR 3.84

17,17(PRIME),17(2-PRIME)-1,3-BIS(1,3-DIMETHYLENE)TRISTEARAM-38  
ETA,1788TA-DICL

CA 54, 8223ORGAN, SOLIDCAL D 0.8626 NO4088.0 04444444 T 150.00  
C 66 H111 B 1 D 6  
MW 1011.43 MI 171.37 NA 0.0880 MD 5.70 EM 83.92 GR 4.91

## 23,23(PRIME),23(2-PRIME)-BIS(1,3-DIMETHYLENE)TRISTEARAM-38

CA 54, 8223ORGAN, SOLIDCAL D 0.8819 NO4089.0 04444444 T -0.  
C 69 H 99 B 1 D 6  
MW 1039.37 MI 161.80 NA 0.0830 MD 5.08 EM 75.17 GR 3.83

A 356

## TRIS(1,3-NAPHTH-1,3-DIOL)-1,3,5,9,11,13-HEXATRIEN-17-YLPROPYLBORON

CA 54, 8223ORGAN, SOLIDCAL D 1.1322 NO4090.0 04444444 T 16.50  
C 73 H 68 B 3 N 3  
MW 3083.95 MI 183.82 NA 0.0818 MD 3.80 EM 54.25 GR 3.48

17,17(PRIME),17(2-PRIME)-1,3-BIS(1,3-DIMETHYLENE)TRISTEARAM-38  
(3-ETHOXYSTYRENE)-1,3,5,9,11,13-HEXATRIEN-17-YLPROPYLBORON

CA 54, 8223ORGAN, SOLIDCAL D 0.8700 NO4091.0 04444444 T 150.00  
C 72 H103 B 1 D 8  
MW 1077.65 MI 170.23 NA 0.0828 MD 5.11 EM 79.62 GR 3.87

## BORON TRICHLORIDE-OCTADECYLAMINE

CA 48,13710ORGAN, SOLIDCAL D 0.7453 NO4092.0 04444444 T 154.00  
C 72 H156 B 1 CL 3 N 4  
MW 1195.26 MI 228.17 NA 0.0838 MD 5.86 EM 704.69 GR 26.47

COMPOUND COMPILATION B

Neutron Shielding Properties of Unclassified  
Inorganic Compounds

Plates B-1 - B-84

(See pages 38-41 for descriptive key of  
print out data used in this compilation)

B 9 BC

BERYLLIUM TETRABORATE  
CA 344 24991000. SOLIDCAL D 2.9557 NO 230.7 04444444 T -0.  
B 48E 1 D 7  
MW 164.29 MI 11.88 NA 0.1287 MD -0. EM 9.64 GR 6.11

4-ORTHOBORIC ACID-3-BERYLLIA  
CA 344 94901000. SOLIDCAL D 1.7988 NO 230.8 04444444 T -0.  
H 12 0 48E 3 D 15  
MW 322.41 MI 33.94 NA 0.1141 MD 4.03 EM 14.38 GR 4.90

OCTABERYLLIUM TETRABORIDE  
AD1884 991000. SOLIDCAL D 2.1893 NO 419.5 04444444 T -0.  
B 48E 8  
MW 113.38 MI 12.44 NA 0.1422 MD -0. EM 6.08 GR 6.92

OCTABERYLLIUM PENTABORIDE  
AD1884 991000. SOLIDCAL D 2.2181 NO 415.6 04444444 T -0.  
B 50E 8  
MW 126.20 MI 13.41 NA 0.1420 MD -0. EM 7.43 GR 7.48

BERYLLIUM HEXABORIDE  
CA 344 18145100. SOLIDCAL D 2.4929 NO 230.9 04444444 T -0.  
B 50E 1  
MW 173.93 MI 6.89 NA 0.1399 MD -0. EM 8.41 GR 17.08

BERYLLIUM HEXABORATE  
CA 344 24991000. SOLIDCAL D 2.9606 NO 231.0 04444444 T -0.  
B 50E 1 D 10  
MW 233.93 MI 16.79 NA 0.1280 MD -0. EM 8.43 GR 6.42

12-SODIUM OXIDE-18-BERYLLIA-10-BORIC OXIDE-60-SILICA  
CA 344 72621000. GLASSCAL D 2.9418 NO 231.2 04444444 T -0.  
B 108E 9NA 12 0 9081 30  
MW 2747.91 MI 180.75 NA 0.1037 MD -0. EM 86.78 GR 5.47

BERYLLIUM SODIUM BORATE SILICATE  
CA 344 72621000. GLASSCAL D 2.9418 NO 231.1 04444444 T -0.  
B 108E 9NA 12 0 9081 30  
MW 2747.91 MI 180.75 NA 0.1037 MD -0. EM 86.78 GR 5.47

BORON CARBIDE  
CA 344 13001000. SOLIDEST D 3.2000 NO 191.2 00000000 T -0.  
C 1 R 1  
MW 224.83 MI 1.78 NA 0.1803 MD -0. EM 1.41 GR 11.88

SODIUM CALCIUM BORATE - SODIUM CARBONATE  
CA 344 10135100. SOLIDCAL D 2.5519 NO 191.3 00040000 T -0.  
C 1 M 1CA 1 N 3 D 6  
MW 200.93 MI 12.31 NA 0.0937 MD -0. EM 8.65 GR 6.61

B 11 BC

BORON TRICHLORIDE - CYANOGEN  
CA 344 13842100. UNKNOMCAL D 2.9157 NO 192.1 04444444 T -0.  
C 2 B 1CL 3 M 2  
MW 169.23 MI 8.13 NA 0.0844 MD -0. EM 386.92 GR 609.09

BORON TRICHLORIDE-2-CARBON MONOXIDEICOPOLYMER  
CA 344 64140000. POLCAL D 2.9079 NO 412.2 04444444 T -0.  
C 2 B 1CL 3 D 2  
MW 173.82 MI 8.17 NA 0.0713 MD -0. EM 584.76 GR 309.98

BORON TRIFLUORIDE - BIS (CARBONYL DICHLORIDE)  
GR 134 18610000. UNKNOMCAL D 2.9296 NO 192.2 04444444 T -137.00  
C 2 B 1CL 4 F 3 D 2  
MW 265.67 MI 13.24 NA 0.0879 MD -0. EM 779.43 GR 517.71

TRIFLUOROACETONIC BORON OXIDE  
CA 344 98730000. UNKNOMCAL D 2.0143 NO 192.3 04444444 T -0.  
C 2 B 1CL 1 F 3 D 3  
MW 184.84 MI 9.43 NA 0.0816 MD -0. EM 1.65 GR 1.43

PERFLUOROVINYL BORON DIFLUORIDE  
AD242. 310000. GASEST D 0.0058 NO 441.8 04444444 T -0.  
C 2 B 1 F 5  
MW 129.84 MI 9.04 NA 0.0002 MD -0. EM 1.79 GR 0.00

POTASSIUM BORO - ORALATE  
CA 344 48610000. SOLIDCAL D 1.7229 NO 192.4 04444444 T -0.  
C 2 B 1 K 1 D 5  
MW 193.94 MI 9.08 NA 0.0812 MD -0. EM 23.49 GR 15.97

BORON SILICON DICARBIDE  
CA 344 70941000. SOLIDCAL D 2.7033 NO 192.5 00040000 T -0.  
C 2 B 1SI 1  
MW 62.93 MI 3.85 NA 0.1070 MD -0. EM 2.21 GR 6.13

BORON DISILICON DICARBIDE  
CA 344 70941000. SOLIDCAL D 2.7730 NO 192.6 00040000 T -0.  
C 2 B 1SI 2  
MW 91.02 MI 5.11 NA 0.0938 MD -0. EM 2.99 GR 5.48

BORON CHLORIDE TRICYANIDE  
NACN 33989100. SOLIDCAL D 2.0493 NO 192.7 04044444 T 800.00  
C 3 B 1CL 1 N 3  
MW 124.93 MI 7.81 NA 0.0775 MD -0. EM 199.12 GR 197.69

THIS (TRIDUTERIDE) BORINE  
CA 344 10649000. UNKNOMCAL D 0.8178 NO 192.8 04444444 T -0.  
C 3 B 1 D 9  
MW 64.79 MI 11.32 NA 0.0858 MD 6.82 EM 1.44 GR 1.09

B 10 BC

BORON TRIFLUORIDE - CARBONYL CHLORIDE  
GR 134 18610000. UNKNOMCAL D 2.8029 NO 191.4 04444444 T -0.  
C 1 B 1CL 3 F 3 D 1  
MW 166.74 MI 9.04 NA 0.0913 MD -0. EM 390.32 GR 395.40

POLYMERIC CYANODICHLOROBORINE  
CA 344 23340000. POLMERCAL D 2.3385 NO 411.6 04444444 T -0.  
C 1 B 1CL 2 M 1  
MW 107.75 MI 9.25 NA 0.0692 MD -0. EM 391.38 GR 516.00

BORON TRICHLORIDE - CHLOROCYANIDE  
CA 444 66071000. UNKNOMCAL D 2.4296 NO 191.5 04444444 T -0.  
C 1 B 1CL 4 M 1  
MW 178.87 MI 7.69 NA 0.0827 MD -0. EM 780.27 GR 639.11

BORON TRICHLORIDE - CARBONYL DICHLORIDE  
GR 134 20010000. UNKNOMCAL D 2.0301 NO 191.6 04444444 T -0.  
C 1 B 1CL 5 D 1  
MW 216.12 MI 8.77 NA 0.0501 MD -0. EM 973.64 GR 536.33

TRIDUTERIDE BORINE - CARBON MONOXIDE  
CA 344 11606100. UNKNOMCAL D 1.3864 NO 191.7 04444444 T -0.  
C 1 B 1 D 3 D 1  
MW 44.88 MI 5.41 NA 0.1007 MD 9.28 EM 1.41 GR 2.82

POLYMERIC CYANODIFLUOROBORINE  
CA 344 23340000. POLMERCAL D 1.8872 NO 411.9 04444444 T -0.  
C 1 B 1 F 2 M 1  
MW 74.86 MI 9.43 NA 0.0829 MD -0. EM 2.63 GR 4.00

BORON TRIFLUORIDE - CARBON MONOXIDE  
NACN 33989100. UNKNOMCAL D 2.5442 NO 191.8 04444444 T -0.  
C 1 B 1 F 3 D 1  
MW 99.63 MI 8.84 NA 0.1062 MD -0. EM 1.63 GR 2.61

DIFLUORO (TRIFLUOROMETHYL) BORINE  
CA 344 86040000. LIQUIDCAL D 2.4860 NO 191.9 04444444 T -0.  
C 1 B 1 F 5  
MW 117.83 MI 8.23 NA 0.1046 MD -0. EM 1.78 GR 2.26

LITHIUM BORATE - LITHIUM CARBONATE  
CA 344 19130000. SOLIDCAL D 2.0692 NO 192.0 00000000 T -0.  
C 1 B 1LI 5 D 4  
MW 153.63 MI 12.77 NA 0.1037 MD -0. EM 1.80 GR 1.46

PERFLUOROVINYL BORON DICHLORIDE  
AD242. 310000. LIQUIDCAL D 1.8993 NO 441.7 04444444 T -0.  
C 2 B 1CL 2 F 3  
MW 162.76 MI 8.86 NA 0.0623 MD -0. EM 390.94 GR 274.51

B 12 BC

BORON CYANIDE  
GR 134 24481000. SOLIDCAL D 1.8261 NO 192.9 04444444 T -0.  
C 3 B 1 N 3 D 1  
MW 134.88 MI 9.90 NA 0.0770 MD -0. EM 4.63 GR 3.76

BIS(PERFLUOROVINYL)BORONCHLORIDE  
AD242. 310000. LIQUIDCAL D 1.8058 NO 441.9 04444444 T -0.  
C 4 B 1CL 1 F 6  
MW 208.82 MI 13.15 NA 0.0887 MD -0. EM 196.33 GR 102.92

LITHIUM TETRACYANOBORATE  
CA 444 66071000. UNKNOMCAL D 1.7189 NO 193.0 04444444 T -0.  
C 4 B 1LI 1 N 4  
MW 121.84 MI 9.50 NA 0.0807 MD -0. EM 5.83 GR 4.97

TRIS(ETHYL-DIS BORINE)  
CA 344 79330000. UNKNOMCAL D 0.8089 NO 193.1 04444444 T -0.  
C 6 B 1 D 15  
MW 113.11 MI 19.03 NA 0.0818 MD 6.49 EM 1.49 GR 0.64

TRIS-PERFLUOROVINYL BORON  
AD242. 310000. LIQUIDCAL D 1.7906 NO 442.0 04444444 T -0.  
C 6 B 1 F 9  
MW 253.07 MI 17.44 NA 0.0724 MD -0. EM 2.13 GR 0.89

TRIS(TRIFLUOROACETYL)BORINE  
CA 344 27830000. SOLIDCAL D 2.0189 NO 193.2 04444444 T 88.00  
C 6 B 1 F 9 D 6  
MW 369.89 MI 23.38 NA 0.0813 MD -0. EM 2.16 GR 0.75

BORON TRICYANIDE-BORON CYANIDE  
CA 444 44321000. SOLIDKNO D 2.2300 NO 5.9 01444440 T 146.50  
C 3 B 1 N 3  
MW 88.88 MI 6.81 NA 0.0999 MD -0. EM 4.68 GR 7.07

DIBORON SILICON CARBIDE  
CA 344 70941000. SOLIDCAL D 2.7194 NO 193.3 00040000 T -0.  
C 1 B 2SI 1  
MW 61.74 MI 4.01 NA 0.1064 MD -0. EM 3.58 GR 9.30

DIBORON DISILICON CARBIDE  
CA 344 70941000. SOLIDCAL D 2.6537 NO 193.4 00040000 T -0.  
C 1 B 2SI 2  
MW 89.63 MI 5.27 NA 0.0938 MD -0. EM 4.36 GR 7.76

BIS(BORON TRICHLORIDE)-CYANOGEN  
CA 484 13761000. SOLIDCAL D 3.0057 NO 193.5 04144440 T -0.  
C 2 B 2CL 6 N 2  
MW 286.42 MI 12.90 NA 0.0837 MD -0. EM 1171.69 GR 755.38

B 13

BC

BISBORON TRICHLORIDE-THIOCYANATE  
CA 51.476461INORG. UNKNOWNCAL D 2.1272 NO 193.4 04444444 T -0.  
C 2 8 2CL 4 N 2 S 2  
MW 350.84 MI 18.50 NA 0.0853 MD -0. EM 1173.17 GR 630.40

BISBORON TRIFLUORIDE-THIOCYANATE  
CA 51.376461INORG. UNKNOWNCAL D 3.0076 NO 193.7 04444444 T -0.  
C 2 8 2 P 4 N 2 S 2  
MW 251.80 MI 16.04 NA 0.1184 MD -0. EM 6.93 GR 4.99

DISBORON TETRACHLORIDE-1,3-DICYANIDE  
CA 48.135861INORG. SOLIDCAL D 2.9124 NO 193.0 04444444 T -0.  
C 3 8 2CL 4 N 3  
MW 241.82 MI 12.74 NA 0.0899 MD -0. EM 783.85 GR 569.33

BISBISITRIFLUORODACETOYLBORONOXIDE  
CA 53.606400INORG. SOLIDCAL D 2.0174 NO 193.9 04444444 T -0.  
C 4 8 2 P 12 O 9  
MW 489.73 MI 32.81 NA 0.0814 MD -0. EM 3.81 GR 0.95

TRIBORON CARBIDE  
CA 27.28861INORG. SOLIDCAL D 2.8236 NO 194.0 00040040 T -0.  
C 1 8 3  
MW 44.47 MI 3.72 NA 0.1423 MD -0. EM 4.19 GR 16.03

TETRABORON CARBIDE-BORON CARBIDE  
CA 32.324561INORG. SOLIDKNO D 2.5400 NO 5.8 00000000 T 2450.00  
C 1 8 4  
MW 55.20 MI 4.49 NA 0.1298 MD -0. EM 9.58 GR 19.45

TETRABORON SILICON DICARBIDE  
CA 54.70961INORG. SOLIDCAL D 2.7844 NO 194.1 00040040 T -0.  
C 2 8 4S1 1  
MW 95.99 MI 6.76 NA 0.1189 MD -0. EM 6.38 GR 11.22

TETRABORON TRICARBIDE  
CA 50.105071INORG. SOLIDCAL D 3.0183 NO 194.2 00040040 T -0.  
C 3 8 4  
MW 79.31 MI 6.31 NA 0.1446 MD -0. EM 9.61 GR 12.67

TETRABORON DIBORON TRICARBIDE  
CA 54.72631INORG. SOLIDCAL D 2.7894 NO 194.3 00040040 T -0.  
C 3 8 4S1 2  
MW 133.69 MI 8.83 NA 0.1095 MD -0. EM 7.18 GR 8.40

OCTACHLOROTETRABORANE-HEXAFLUORIDE  
CA 53.159461INORG. UNKNOWNCAL D 2.9124 NO 204.1 04444444 T -0.  
C 8 8 4CL 8 F 8  
MW 483.05 MI 24.76 NA 0.0899 MD -0. EM 1567.71 GR 569.33

B 15

BCa

CALCIUM TETRAFLUOROBORATE  
CA 54.150561INORG. SOLIDCAL D 2.8103 NO 195.0 04444444 T -0.  
B 2CA 1 P 8  
MW 213.72 MI 13.84 NA 0.1096 MD -0. EM 7.37 GR 5.83

CALCIUM TETRAFLUOROBORATE DIHYDRATE  
CA 21.12361INORG. SOLIDCAL D 2.4762 NO 195.1 04444444 T -0.  
H 4 8 2CA 1 P 8 O 2  
MW 249.89 MI 19.82 NA 0.1184 MD 2.39 EM 10.30 GR 6.13

CALCIUM TETRAFLUOROBORATE PENTAHYDRATE  
CA 21.21161INORG. SOLIDCAL D 2.0401 NO 195.2 04444444 T -0.  
H 10 8 2CA 1 P 8 O 5  
MW 303.80 MI 26.79 NA 0.1189 MD 4.04 EM 14.71 GR 9.95

CALCIUM METABORATE DIHYDRATE  
CA 52.196391INORG. SOLIDCAL D 2.2869 NO 195.3 04444444 T -0.  
H 4 8 2CA 1 O 6  
MW 161.75 MI 13.46 NA 0.1166 MD 3.41 EM 9.72 GR 8.27

CALCIUM DIBORONHYDRIDE  
CA 39.80531INORG. UNKNOWNCAL D 1.3090 NO 195.4 04444444 T -0.  
H 8 8 2CA 1  
MW 67.97 MI 9.52 NA 0.1108 MD 6.98 EM 11.18 GR 13.00

CALCIUM TETRAHYDROBORATE  
CA 54.184071INORG. UNKNOWNCAL D 1.1047 NO 195.5 04444444 T -0.  
H 8 8 2CA 1  
MW 89.78 MI 11.72 NA 0.1098 MD 7.63 EM 12.64 GR 12.06

CALCIUM METABORATE  
CA 27.10361INORG. SOLIDCAL D 2.9344 NO 195.6 04444444 T 1154.00  
B 2CA 1 O 6  
MW 123.72 MI 7.48 NA 0.1053 MD -0. EM 6.78 GR 9.55

1-CALCIUM OXIDE-1-DIBORON TRIOXIDE-2-SILICON DIOXIDE-DANBURITE  
H 2CA 1 O 8S1 2  
MW 243.90 MI 12.76 NA 0.1019 MD -0. EM 6.35 GR 6.09

CALCIUM BORON SILICON OXIDE MONOHYDRATE-DATOLITE  
H 2 8 2CA 2 O 10S1 2  
MW 320.00 MI 19.72 NA 0.1084 MD 1.11 EM 13.81 GR 7.67

DICALCIUM DIBORATE  
CA 52.196391INORG. SOLIDCAL D 2.9271 NO 195.7 04444444 T -0.  
B 2CA 2 O 5  
MW 181.80 MI 10.05 NA 0.0975 MD -0. EM 10.77 GR 10.45

B 14

BC/BCa

HEXABORON CARBIDE  
CA 53.88861INORG. SOLIDCAL D 2.7152 NO 194.4 00040040 T -0.  
C 1 8 6  
MW 76.93 MI 6.63 NA 0.1408 MD -0. EM 8.37 GR 17.78

UNDECABORON TETRACARBIDE  
CA 50.123123INORG. SOLIDKNO D 2.4960 NO 431.4 04444444 T -0.  
C 4 8 11  
MW 167.06 MI 13.41 NA 0.1252 MD -0. EM 13.37 GR 13.83

DODECABORON TRICARBIDE  
CA 50.109361INORG. SOLIDCAL D 2.7723 NO 194.5 00040040 T -0.  
C 3 8 12  
MW 165.87 MI 14.07 NA 0.1416 MD -0. EM 16.79 GR 16.86

TRIDECABORON DICARBIDE  
CA 53.109301INORG. SOLIDCAL D 2.7059 NO 194.6 00040040 T 1400.00  
C 2 8 13  
MW 164.68 MI 14.23 NA 0.1408 MD -0. EM 18.12 GR 17.94

CALCIUM HYDROGEN DITHIOBORATE  
CA 52.196391INORG. SOLIDCAL D 2.5036 NO 197.8 04444444 T -0.  
H 1 8 1CA 1 O 3  
MW 99.91 MI 8.52 NA 0.0984 MD 1.51 EM 6.12 GR 9.24

CALCIUM BOROSILICATE-DATOLITE  
CA 53.109301INORG. SOLIDKNO D 2.9400 NO 1.9 00000000 T -0.  
H 1 8 1CA 1 O 5S1 1  
MW 160.00 MI 9.76 NA 0.1080 MD 1.11 EM 6.91 GR 7.64

BORON TRIFLUORIDE-CALCIUM DIFLUORIDE  
CA 53.146831INORG. UNKNOWNCAL D 2.4084 NO 197.7 04444444 T -0.  
B 1CA 1 F 5  
MW 143.00 MI 9.00 NA 0.0894 MD -0. EM 5.75 GR 5.71

SODIUM CALCIUM BORON DIOXIDE  
CA 52.196391INORG. SOLIDCAL D 2.6843 NO 194.7 04444444 T -0.  
H 1CA 1NA 1 O 2  
MW 105.89 MI 5.74 NA 0.0870 MD -0. EM 9.28 GR 14.08

CALCIUM DIBORIDE  
CA 53.30721INORG. SOLIDCAL D 1.7333 NO 194.8 04444444 T -0.  
B 1CA 2  
MW 90.98 MI 4.13 NA 0.0674 MD -0. EM 9.37 GR 10.74

BORON TRIFLUORIDE-BIS(CALCIUM DIFLUORIDE)  
H 13 187INORG. UNKNOWNCAL D 2.4084 NO 194.9 04444444 T -0.  
B 1CA 2 F 7  
MW 223.90 MI 13.16 NA 0.0857 MD -0. EM 9.89 GR 6.41

B 16

BCa

CALCIUM UNKTHIOBORATE  
CA 52.196391INORG. SOLIDCAL D 2.9206 NO 195.8 04444444 T -0.  
H 2CA 3 O 6  
MW 237.88 MI 12.42 NA 0.0933 MD -0. EM 14.77 GR 10.92

5-CALCIUM OXIDE-BORIC OXIDE-SILICA  
CA 31.36641INORG. SOLIDCAL D 2.9959 NO 195.9 04444444 T 1419.00  
B 2CA 5 O 10S1 1  
MW 410.13 MI 21.00 NA 0.0912 MD -0. EM 23.54 GR 10.22

CALCIUM BORATE MONOHYDRATE-COLEMANITE  
CA 54.84751INORG. SOLIDCAL D 2.3008 NO 196.0 04444444 T -0.  
H 2 8 2CA 1 O 8  
MW 205.48 MI 17.51 NA 0.1174 MD 3.37 EM 11.85 GR 7.99

INYOITE  
CA 44.92361INORG. SOLIDCAL D 1.8096 NO 435.1 00000000 T -0.  
H 18 8 2CA 1 O 12  
MW 277.64 MI 29.37 NA 0.1153 MD 9.10 EM 17.72 GR 6.96

CALCIUM TETRAHYDROBORATE  
CA 50.80531INORG. UNKNOWNCAL D 1.9484 NO 196.1 04444444 T -0.  
H 4 8 2CA 1  
MW 87.39 MI 9.46 NA 0.1269 MD 5.37 EM 12.49 GR 16.76

CALCIUM HEXAHYDROTETRABORATE  
CA 30.80531INORG. UNKNOWNCAL D 1.5881 NO 196.2 04444444 T -0.  
H 6 8 4CA 1  
MW 89.41 MI 21.46 NA 0.1226 MD 6.42 EM 13.96 GR 14.44

SODIUM TETRABORATE-CALCIUM SULFATE  
CA 36.19811INORG. SOLIDCAL D 2.7418 NO 196.3 04444444 T -0.  
B 4CA 1NA 2 O 11 S 1  
MW 337.40 MI 20.07 NA 0.0982 MD -0. EM 18.12 GR 8.87

CALCIUM OXIDE-BIS (BORIC OXIDE)  
CA 53.79421INORG. GLASSCAL D 2.9511 NO 196.4 04444444 T 986.00  
B 4CA 1 O 7  
MW 195.36 MI 12.39 NA 0.1127 MD -0. EM 9.57 GR 8.71

SODIUM TETRABORATE-CALCIUM SULFATE  
CA 36.19811INORG. SOLIDCAL D 2.7974 NO 196.5 04444444 T -0.  
B 4CA 2NA 2 O 15 S 2  
MW 473.54 MI 26.91 NA 0.0958 MD -0. EM 22.88 GR 8.14

CALCIUM TETRABORATE-CALCIUM SULFATE  
CA 36.19811INORG. SOLIDCAL D 2.9488 NO 196.6 04444444 T -0.  
H 4CA 2 O 11 S 1  
MW 331.50 MI 19.23 NA 0.1030 MD -0. EM 14.32 GR 7.67

B 17

BCA

CALCIUM SODIUM PENTABORATE-9-WATER  
CA 35. 3211INORG. SOLIDCAL D 2.1396 NO 432.1 0444444 T -0.  
H 10 B SCA 1NA 1 0 14  
MW 351.25 MI 31.30 NA 0.1196 MD 3.67 EM 22.70 GR 8.15

SODIUM CALCIUM PENTABORATE-OCTAHYDRATE,ULEXITE  
GM 13. 35INORG. SOLIDKNO D 1.9800 NO 10.5 00000000 T -0.  
H 16 B SCA 1NA 1 0 17  
MW 405.30 MI 40.47 NA 0.1191 MD 4.71 EM 26.61 GR 7.83

SODIUM CALCIUM PENTABORATE-PROBERTITE  
CA 33.16302INORG. SOLIDCAL D 2.8112 NO 194.7 0444444 T -0.  
H 5CA 1NA 1 0 9  
MW 261.17 MI 16.95 NA 0.1073 MD -0. EM 14.86 GR 9.63

CALCIUM CHLOROPENTABORATE MONOHYDRATE, HILGARDITE  
CA 47.12194INORG. SOLIDCAL D 3.0261 NO 439.2 00000000 T -0.  
H 2 B SCA 2CL 1 0 10  
MW 331.75 MI 21.11 NA 0.1160 MD 1.10 EM 210.87 GR 115.86

HUNTLITE  
CA 47. 4804INORG. SOLIDCAL D 2.7009 NO 435.3 00000000 T -0.  
H 5 B SCA 2 0 10 1  
MW 391.39 MI 38.13 NA 0.1160 MD 2.08 EM 19.41 GR 8.07

HELDORITE  
CA 47. 4804INORG. SOLIDCAL D 3.0058 NO 435.4 00000000 T -0.  
H 2 B SCA 2CL 1NA 2 0 10 2  
MW 609.61 MI 55.63 NA 0.1096 MD 0.59 EM 224.18 GR 86.55

BAKERITE  
CA 47.10413INORG. SOLIDCAL D 2.9199 NO 435.3 00000000 T -0.  
H 5 B SCA 4 0 10 1  
MW 623.73 MI 59.75 NA 0.1121 MD 1.41 EM 28.97 GR 8.17

CALCIUM HEXABORATE-CALCIUM BORIDE  
CA 33.81317INORG. SOLIDKNO D 2.3900 NO 1.0 00000000 T 2295.00  
H 6CA 1  
MW 105.00 MI 7.40 NA 0.1018 MD -0. EM 12.34 GR 16.92

CALCIUM OXIDE-TRIS (BORIC OXIDE)-4-WATER  
CA 35. 2403INORG. SOLIDCAL D 2.3216 NO 196.8 0444444 T -0.  
H 8 B SCA 1 0 14  
MW 337.06 MI 39.26 NA 0.1214 MD 3.32 EM 18.23 GR 7.96

CALCIUM MAGNESIUM HEXABORATE-HEXAHYDRATE, HYDROBORACITE  
GM 13. 35INORG. GLASSKNO D 2.1700 NO 10.6 00000000 T -0.  
H 12 B SCA 1MG 1 0 17  
MW 413.42 MI 37.45 NA 0.1184 MD 3.79 EM 21.70 GR 6.86

R 19

BCB

CALCIUM BORON OXIDE SEPTAHYDRATE, MYRAPHORITE  
CA 10. 2082INORG. GLASSKNO D 2.1200 NO 1.5 00000000 T -0.  
H 14 B SCA 2 0 18  
MW 447.19 MI 40.80 NA 0.1165 MD 4.00 EM 28.63 GR 7.40

CALCIUM BORON OXIDE TRIDECAMHYDRATE, INVOLITE  
CA 10. 2082INORG. GLASSKNO D 1.8750 NO 1.6 00000000 T -0.  
H 26 B SCA 2 0 26  
MW 595.89 MI 58.74 NA 0.1195 MD 5.29 EM 35.45 GR 7.21

DIAMMONIUM CALCIUM TETRABORATE-12-WATER  
CA 91.16181INORG. SOLIDCAL D 1.8939 NO 197.2 0444444 T -0.  
H 32 B SCA 1NA 2 0 26  
MW 602.91 MI 69.22 NA 0.1171 MD 5.42 EM 40.80 GR 8.90

POTASSIUM OXIDE-CALCIUM OXIDE-4-BORIC OXIDE-12-WATER  
CA 91.16181INORG. SOLIDCAL D 1.8900 NO 197.1 0444444 T -0.  
H 24 B SCA 1K 2 0 26  
MW 645.03 MI 62.16 NA 0.1097 MD 4.24 EM 77.29 GR 13.64

SODIUM CALCIUM BORON OXIDE DECAHYDRATE, PROBERTITE  
CA 24. 1391INORG. SOLIDKNO D 1.9100 NO 1.2 00000000 T -0.  
H 20 B 10CA 2NA 2 0 28  
MW 702.80 MI 63.00 NA 0.1032 MD 5.28 EM 44.41 GR 7.27

TETRA-CALCIUM DECARBORATE-7-WATER  
CA 55. 3211INORG. SOLIDCAL D 2.4145 NO 432.5 0444444 T -0.  
H 14 B 10CA 4 0 26  
MW 698.63 MI 55.76 NA 0.1166 MD 2.93 EM 40.19 GR 8.40

CALCIUM DECARBORATE-20-WATER  
GM 13. 35INORG. SOLIDCAL D 1.8793 NO 197.3 0444444 T -0.  
H 40 B 10CA 4 0 39  
MW 932.94 MI 94.63 NA 0.1148 MD 4.89 EM 59.29 GR 7.19

CALCIUM DECARBORATE-SEPTAHYDRATE, PRICEITE, PANDERITE  
GM 13. 35INORG. SOLIDKNO D 2.4800 NO 10.8 00000000 T -0.  
H 14 B 10CA 4 0 26  
MW 698.63 MI 55.76 NA 0.1192 MD 2.79 EM 40.19 GR 8.59

BAKERITE  
CA 47.10413INORG. SOLIDCAL D 3.2366 NO 439.8 0444444 T -0.  
H 2 B 10CA 8 0 38 1  
MW 1175.40 MI 67.94 NA 0.1120 MD 0.33 EM 32.06 GR 8.43

CALCIUM BORON OXIDE HEXAHYDRATE, BAKERITE  
GM 13. 35INORG. SOLIDKNO D 2.8000 NO 2.1 00000000 T -0.  
H 12 B 10CA 8 0 41  
MW 1096.94 MI 76.93 NA 0.1132 MD 1.85 EM 54.71 GR 8.41

B 18

BC:

PROBERTITE  
CA 40. 1430INORG. SOLIDCAL D 2.1291 NO 435.6 00000000 T -0.  
H 12 B SCA 1NA 2 0 17  
MW 435.08 MI 38.63 NA 0.1139 MD 3.54 EM 28.96 GR 8.54

CALCIUM HEXABORATE-9-WATER  
CA 35. 3211INORG. SOLIDCAL D 1.9591 NO 432.3 0444444 T -0.  
H 16 B SCA 1 0 18  
MW 409.13 MI 41.22 NA 0.1186 MD 4.61 EM 24.11 GR 6.94

CALCIUM HEXABORATE-12-WATER  
CA 35. 3211INORG. SOLIDCAL D 1.7603 NO 432.4 0444444 T -0.  
H 24 B SCA 1 0 22  
MW 481.19 MI 83.18 NA 0.1172 MD 5.29 EM 29.49 GR 6.61

CALCIUM MAGNESIUM HEXABORATE, HYDROBORACITE, INDERBORITE  
CA 30. 3715INORG. SOLIDCAL D 2.96 NO 439.7 0444444 T -0.  
H 6CA 1MG 1 0 11  
MW 305.32 MI 19.51 NA 0.1139 MD 0. EM 12.89 GR 7.53

CALCIUM HEXABORATE  
CA 51.10286INORG. SOLIDCAL D 2.7966 NO 152.9 0444444 T -0.  
H 6CA 1 0 10  
MW 285.00 MI 17.30 NA 0.1163 MD -0. EM 12.34 GR 8.30

CALCIUM MAGNESIUM HEXABORATE UNDECAMHYDRATE, INDERBORITE  
GM 13. 37INORG. GLASSKNO D 1.9700 NO 10.7 00000000 T -0.  
H 22 B SCA 1MG 1 0 22  
MW 503.80 MI 92.40 NA 0.1235 MD 9.18 EM 29.05 GR 6.89

CALCIUM BORON OXIDE DIOXYDRATE, VEATCHITE  
AN 23. 409INORG. SOLIDKNO D 2.6900 NO 1.3 00000000 T -0.  
H 6 B SCA 2 0 13  
MW 357.11 MI 28.65 NA 0.1173 MD 1.81 EM 19.29 GR 8.75

CALCIUM BORON OXIDE PENTAHYDRATE, COLEMANITE  
GM 13. 35INORG. GLASSKNO D 2.4000 NO 1.4 00000000 T -0.  
H 10 B SCA 2 0 18  
MW 411.66 MI 34.82 NA 0.1224 MD 3.52 EM 23.69 GR 8.33

CALCIUM BORON OXIDE PENTAHYDRATE, COLEMANITE, INVOLITE, NEVEROFFERITE  
CA 32.1873INORG. SOLIDKNO D 2.4200 NO 9.9 00000000 T -0.  
H 10 B SCA 2 0 18  
MW 411.66 MI 34.82 NA 0.1234 MD 3.55 EM 23.69 GR 8.40

3-CALCIUM OXIDE-3-BORIC OXIDE  
CA 38. 3818INORG. SOLIDCAL D 2.9468 NO 197.0 0444444 T -0.  
H 6CA 2 0 11  
MW 321.08 MI 19.47 NA 0.1098 MD -0. EM 16.35 GR 9.04

B 20

BCB/BC1

6-SODIUM OXIDE-9-CALCIUM OXIDE-9-BORIC OXIDE-30-SILICA  
CA 30. 7262INORG. SOLIDCAL D 2.9402 NO 197.4 0444444 T -0.  
H 10CA 9NA 12 0 06 1 30  
MW 3027.61 MI 145.34 NA 0.0967 MD -0. EM 120.15 GR 7.03

CALCIUM DODECARBORATE  
CA 32. 2466INORG. SOLIDCAL D 2.9427 NO 435.9 0444444 T -0.  
H 12CA 9 0 23  
MW 698.63 MI 55.76 NA 0.1174 MD -0. EM 36.69 GR 9.31

SODIUM TETRABORATE-2-CALCIUM TETRABORATE  
CA 36. 1941INORG. SOLIDCAL D 2.8292 NO 197.5 0444444 T -0.  
H 12CA 2NA 2 0 21  
MW 591.98 MI 58.01 NA 0.1094 MD -0. EM 32.90 GR 9.36

CALCIUM BORON OXIDE ENNEAHYDRATE, PRICEITE  
H 10 B 12CA 9 0 32  
MW 840.13 MI 69.72 NA 0.1178 MD 3.06 EM 49.61 GR 8.49

CALCIUM BORON OXIDE OCTAHYDRATE, GINORITE  
CA 29. 4702INORG. SOLIDKNO D 2.9400 NO 1.8 00000000 T -0.  
H 16 B 10CA 2 0 38  
MW 823.77 MI 68.38 NA 0.1049 MD 2.45 EM 39.26 GR 6.00

PARAHILGARDITE  
CA 33. 945INORG. SOLIDCAL D 3.2367 NO 436.0 0444444 T -0.  
H 2 B 10CA 8CL 4 0 34  
MW 1203.24 MI 70.96 NA 0.1131 MD 0.33 EM 816.28 GR 136.42

OCTA-CALCIUM TETRACHLOROTRIMEXABORATE-DIOXYDRATE, HILGARDITE  
GM 13. 35INORG. GLASSKNO D 2.7100 NO 10.9 00000000 T -0.  
H 4 B 10CA 8CL 4 0 35  
MW 1221.26 MI 73.55 NA 0.0983 MD 0.53 EM 837.75 GR 111.97

CALCIUM CHLOROBORATE TETRAHYDRATE, HILGARDITE  
H 7INORG. SOLIDKNO D 2.7100 NO 1.1 00000000 T -0.  
H 8 B 10CA 8CL 4 0 37  
MW 1257.29 MI 79.53 NA 0.1033 MD 1.04 EM 840.69 GR 109.15

12-SODIUM OXIDE-18-CALCIUM OXIDE-10-BORIC OXIDE-60-SILICA  
CA 30. 7262INORG. SOLIDCAL D 2.9402 NO 197.6 0444444 T -0.  
H 10CA 9NA 12 0 06 1 30  
MW 3027.61 MI 145.34 NA 0.0967 MD -0. EM 120.15 GR 7.03

BORON CHLORIDE  
CA 53. 2870INORG. GASEST D 0.0021 NO 197.9 0444444 T -0.  
H 1CL 1  
MW 46.28 MI 2.17 NA 0.0001 MD -0. EM 195.84 GR 0.94

B 21 BCI

BORON CHLORIDE POLYMER  
PB 14095410RG.POLYMERICAL D 2.8740 NO 411.2 04144444 T -0.  
B ICL 1  
MW 46128 MI 2.17 NA 0.0755 MD -0. EM 195.84 GR 601.42

CHLOROBORINE  
GM 131 20310RG.UNKNOWCAL D 1.7956 NO 198.5 04444444 T -0.  
H 2 B ICL 1  
MW 46128 MI 4.17 NA 0.0934 MD 6.48 EM 197.31 GR 441.89

SODIUM CHLOROBORATE  
GM 131 20310RG. SOLIDKMO D 2.0760 NO 20.1 04444444 T -0.  
H 4 B ICL 1NA 2 D 4  
MW 160.29 MI 12.35 NA 0.0979 MD 3.12 EM 206.57 GR 161.15

CHLOROBORINE-PHOSPHANE  
GM 131 20310RG.UNKNOWCAL D 1.1732 NO 198.6 04444444 T -0.  
H 5 B ICL 1 P 1  
MW 82.29 MI 8.90 NA 0.0730 MD 4.29 EM 201.33 GR 172.89

SODIUM CHLOROTRIPHOSPHINOBORATE  
CA 491097210RG.UNKNOWCAL D 2.1477 NO 432.6 04444444 T -0.  
H 6 B ICL 1NA 1 P 3  
MW 168.24 MI 13.37 NA 0.1028 MD 4.61 EM 209.60 GR 161.17

CHLOROBORANE DIAMMONIATE  
CA 291 99830RG.UNKNOWCAL D 0.9627 NO 198.7 04444444 T -0.  
H 5 B ICL 1 M 2  
MW 82.36 MI 12.31 NA 0.0467 MD 5.63 EM 203.87 GR 143.34

CHLORODIPLUMBOBORANE  
CA 51.2944410RG.UNKNOWCAL D 2.1539 NO 198.0 04444444 T -0.  
B ICL 1 P 2  
MW 86128 MI 4.75 NA 0.0731 MD -0. EM 195.99 GR 301.71

BORON TRIFLUORIDE-HYDROGEN CHLORIDE  
GM 131 17010RG.UNKNOWCAL D 2.2731 NO 198.1 04444444 T -0.  
H 1 B ICL 1 P 3  
MW 104128 MI 7.04 NA 0.0924 MD 1.31 EM 196.79 GR 258.38

PHOSPHONIUM TRIFLUORODICHLOROBORATE  
CA 541179610RG.UNKNOWCAL D 2.1872 NO 198.2 04444444 T -0.  
H 4 B ICL 1 P 3 P 1  
MW 138.28 MI 21.57 NA 0.1083 MD 3.81 EM 200.82 GR 191.32

BORON TRIFLUORIDE-NITROSYL CHLORIDE  
CA 541179610RG.UNKNOWCAL D 2.3881 NO 198.3 04444444 T -0.  
B ICL 1 P 3 M 1 D 1  
MW 133.28 MI 8.10 NA 0.0873 MD -0. EM 197.14 GR 212.40

B 23 BCI

BORON TRICHLORIDE  
CA 361 11010RG.LIQUIDKMO D 1.4000 NO 2.3 04444444 T -107.00  
B ICL 3  
MW 117.19 MI 4.57 NA 0.0339 MD -0. EM 586.73 GR 420.75

BORON TRIFLUORIDE-PHOSPHORUS DITRICHLOIDE  
CA 541179610RG.LIQUIDCAL D 2.8021 NO 198.5 04444444 T -3.00  
B ICL 3 P 3 D 1 P 1  
MW 221.17 MI 10.76 NA 0.0888 MD -0. EM 586.78 GR 462.17

BORON TRIFLUORIDE-PHOSPHORUS TRICHLORIDE  
GM 131 17010RG.UNKNOWCAL D 2.9889 NO 199.6 04444444 T -0.  
H 1 B ICL 4  
MW 225.17 MI 9.77 NA 0.0882 MD -0. EM 586.71 GR 511.45

BORON TRICHLORIDE-HYDROGEN SULFIDE  
GM 131 20110RG.LIQUIDCAL D 2.6057 NO 199.7 04444444 T -35.30  
H 2 B ICL 3 S 1  
MW 151.27 MI 7.87 NA 0.0817 MD 2.08 EM 586.96 GR 609.01

SODIUM TRICHLOROPHOSPHINOBORATE  
CA 491097210RG.UNKNOWCAL D 2.8673 NO 432.8 04444444 T -0.  
H 2 B ICL 3NA 1 P 1  
MW 173.17 MI 9.11 NA 0.0989 MD 1.99 EM 591.91 GR 590.33

BORON TRICHLORIDE-AMMONIA  
PB 16 877610RG.UNKNOWCAL D 1.6253 NO 199.8 04444444 T -0.  
H 3 B ICL 3 M 1  
MW 134.22 MI 8.66 NA 0.0630 MD 2.19 EM 588.01 GR 428.88

BORON TRICHLORIDE-PHOSPHINE  
CA 341 140910RG.UNKNOWCAL D 1.8671 NO 199.9 04444444 T -0.  
H 3 B ICL 3 P 1  
MW 151.19 MI 8.90 NA 0.0662 MD 2.23 EM 588.75 GR 437.93

BORON TRICHLORIDE-HYDROGEN SULFIDE  
CA 391 401510RG.UNKNOWCAL D 1.3875 NO 210.1 44444444 T -0.  
H 18 B ICL 3 S 9  
MW 423.87 MI 34.27 NA 0.0676 MD 3.55 EM 604.78 GR 119.74

BORON TRICHLORIDE-NITROGEN MONOXIDE  
GM 131 20110RG.UNKNOWCAL D 2.2148 NO 200.1 04444444 T -105.00  
B ICL 3 M 1 D 1  
MW 147.20 MI 6.63 NA 0.0601 MD -0. EM 585.81 GR 530.91

BORON TRICHLORIDE-SULFUR DIOXIDE  
CA 391 401510RG.UNKNOWCAL D 2.3889 NO 200.2 44444444 T -0.  
H ICL 3 D 2 S 1  
MW 181.23 MI 7.85 NA 0.0623 MD -0. EM 589.49 GR 464.81

B 24 BCI

BORON TRIFLUORIDE-CHLORYL DIOXYFLUORIDE  
CA 481 747710RG.SOLIDCAL D 2.4685 NO 198.4 04444444 T -0.  
B ICL 1 F 4 O 2  
MW 154128 MI 9.31 NA 0.0897 MD -0. EM 196.14 GR 189.03

UROBORYL CHLORIDE  
CA 511 244810RG.UNKNOWCAL D 2.3317 NO 198.8 04444444 T -0.  
B ICL 1 O 1  
MW 62128 MI 3.16 NA 0.0713 MD -0. EM 195.84 GR 441.65

DICHLORODIFLUOROBORANE  
CA 491097210RG.UNKNOWCAL D 1.9266 NO 198.9 04444444 T -0.  
B ICL 2 F 1  
MW 100.73 MI 4.66 NA 0.0837 MD -0. EM 190.36 GR 449.69

DICHLOROBORINE  
GM 131 20310RG.UNKNOWCAL D 1.6781 NO 199.0 04444444 T -0.  
H 1 B ICL 2  
MW 82174 MI 4.37 NA 0.0834 MD 1.22 EM 191.02 GR 477.68

DICHLOROBORYL HYDROSULFIDE  
NACH 4398910RG.SOLIDCAL D 1.7914 NO 199.1 04144444 T -0.  
H 1 B ICL 2 S 1  
MW 114.80 MI 5.67 NA 0.0833 MD 0.96 EM 191.78 GR 368.24

DICHLOROBORCAPTO BORINE  
CA 5311964010RG.LIQUIDCAL D 1.7914 NO 202.2 04444444 T -0.  
H 1 B ICL 2 S 1  
MW 114.80 MI 5.67 NA 0.0833 MD 0.96 EM 191.78 GR 368.24

AMINOICHLOROBORANE  
NACP 26 11010RG.SOLIDCAL D 1.3099 NO 199.2 04444444 T -0.  
H 2 B ICL 2 M 1  
MW 77.78 MI 6.44 NA 0.0920 MD 1.61 EM 192.83 GR 317.05

SODIUM DICHLORODIPHOSPHINOBORATE  
CA 491097210RG.UNKNOWCAL D 2.6610 NO 432.7 04444444 T -0.  
H 4 B ICL 2NA 1 P 2  
MW 170.71 MI 11.24 NA 0.0976 MD 3.67 EM 400.76 GR 348.00

DICHLOROBORINE-PHOSPHANE  
GM 131 20310RG.SOLIDCAL D 1.2452 NO 199.3 04444444 T 68.00  
H 4 B ICL 2 P 1  
MW 116.74 MI 8.70 NA 0.0889 MD 2.57 EM 195.04 GR 253.81

DICHLORODISTICHLANOBORANE  
CA 441 429610RG.UNKNOWCAL D 1.1353 NO 199.4 04144444 T -0.  
H 6 D ICL 2 M 1 S 1  
MW 197.87 MI 12.96 NA 0.0761 MD 2.60 EM 197.33 GR 171.99

B 24 BCI

BORON TRICHLORIDE-BIS(SULFUR TRIOXIDE)  
CA 361 149410RG.UNKNOWCAL D 2.2119 NO 200.3 44444444 T -0.  
B ICL 3 O 4 S 3  
MW 277.19 MI 13.11 NA 0.0630 MD -0. EM 586.26 GR 281.61

TETRACHLOROBORIC ACID  
GM 131 20210RG.UNKNOWCAL D 1.8329 NO 200.4 04444444 T -0.  
H 1 B ICL 4  
MW 153.86 MI 6.77 NA 0.0488 MD 0.72 EM 779.91 GR 580.18

BORON TRICHLORIDE-HYDROGEN CHLORIDE  
GM 131 20310RG.UNKNOWCAL D 2.2734 NO 200.5 04444444 T -0.  
H 1 B ICL 4  
MW 153.86 MI 6.77 NA 0.0488 MD 0.69 EM 777.71 GR 695.03

AMMONIUM TETRACHLOROBORATE  
CA 541179610RG.UNKNOWCAL D 2.4259 NO 200.6 04444444 T -0.  
H 4 B ICL 4 M 1  
MW 170.69 MI 10.84 NA 0.0928 MD 3.42 EM 783.19 GR 670.47

PHOSPHONIUM TETRACHLOROBORATE  
CA 541179610RG.UNKNOWCAL D 2.7085 NO 200.7 04444444 T -0.  
H 4 B ICL 4 P 1  
MW 187.69 MI 11.10 NA 0.0965 MD 3.48 EM 783.93 GR 681.92

POTASSIUM TETRACHLOROBORATE  
CA 52.7000 10RG.UNKNOWCAL D 3.0795 NO 200.8 04444444 T -0.  
B ICL 4 K 1  
MW 191.75 MI 7.31 NA 0.0707 MD -0. EM 801.44 GR 775.29

NITROSYL TETRACHLOROBORATE  
CA 441 429610RG.SOLIDCAL D 2.8996 NO 200.9 04444444 T 26.50  
B ICL 4 M 1 O 1  
MW 182.86 MI 7.81 NA 0.0749 MD -0. EM 780.26 GR 746.07

BORON TRICHLORIDE-NITROSYL CHLORIDE  
GM 131 20210RG.LIQUIDCAL D 2.2722 NO 201.0 04444444 T 26.50  
B ICL 4 M 1 O 1  
MW 182.86 MI 7.81 NA 0.0687 MD -0. EM 780.26 GR 586.64

SODIUM TETRACHLOROBORATE  
CA 541228310RG.UNKNOWCAL D 3.4154 NO 432.9 04444444 T -0.  
B ICL 4 NA 1  
MW 175.64 MI 6.98 NA 0.0818 MD -0. EM 783.07 GR 917.21

BORON TRICHLORIDE-CHLORINE  
GM 131 20310RG.UNKNOWCAL D 2.3765 NO 201.1 04444444 T -0.  
B ICL 3  
MW 188.10 MI 6.97 NA 0.0575 MD -0. EM 973.62 GR 803.27



B 25

BC1

CHLOROTETRAFLUOROBORATE-TRIPHOSPHORUS TETRACHLORIDE  
CA 34.8174INORG. UNKNOWNCAL D 3.9511 MD 201.2 04444444 T -0.  
H 1CL 3 P 1  
MW 276.08 MI 12.17 MA 0.0963 MD -0. EM 975.67 GR 795.91

BORON TRICHLORIDE-TRIPHOSPHORUS OXYTRICHLORIDE  
CA 47.3167INORG. SOLIDCAL D 2.3371 MD 201.3 04444444 T -0.  
H 1CL 6 O 1 P 1  
MW 270.94 MI 10.49 MA 0.0993 MD -0. EM 1169.89 GR 660.83

BORON TRICHLORIDE-TRIPHOSPHORUS TRICHLORIDE  
CA 13.2011INORG. SOLIDCAL D 2.6178 MD 201.4 04444444 T -0.  
H 1CL 6 P 1  
MW 294.86 MI 9.50 MA 0.0989 MD -0. EM 1169.89 GR 724.73

BORON TRICHLORIDE-SULFUR TETRACHLORIDE  
CA 13.1351INORG. UNKNOWNCAL D 2.5811 MD 201.5 04444444 T -0.  
H 1CL 7S 1  
MW 291.07 MI 10.67 MA 0.0970 MD -0. EM 1163.27 GR 728.16

BORON TRICHLORIDE-TRIPHOSPHORUS PENTACHLORIDE  
CA 34.7392INORG. UNKNOWNCAL D 2.6019 MD 201.6 04444444 T -0.  
H 1CL 8 P 1  
MW 329.45 MI 11.90 MA 0.0973 MD -0. EM 1598.78 GR 790.64

BIS(POTASSIUM TETRAFLUOROBORATE)-POTASSIUM PERCHLORATE  
CA 29.2460INORG. SOLIDCAL D 2.3378 MD 201.7 04444444 T -0.  
H 2CL 1 P 8 K 1 O 4  
MW 390.40 MI 22.04 MA 0.0802 MD -0. EM 264.61 GR 96.26

CHLORODIBORANE  
CA 13.2090INORG. LIQUIDCAL D 1.2942 MD 201.8 04444444 T -0.  
H 3 O 2CL 1  
MW 62.14 MI 8.14 MA 0.0990 MD 6.08 EM 200.90 GR 244.25

BORIC OXIDE-LITHIUM CHLORIDE  
CA 20.4931INORG. SOLIDCAL D 2.8948 MD 201.9 04444444 T -0.  
H 2CL 1Li 1 O 3  
MW 112.04 MI 1.12 MA 0.1093 MD -0. EM 197.31 GR 302.84

TRIPLEITE  
CA 13.9010INORG. SOLIDCAL D 2.1269 MD 433.0 00000000 T -0.  
H 3 O 2CL 2HA 6 O 8  
MW 320.68 MI 25.10 MA 0.1003 MD 3.20 EM 413.14 GR 165.10

DICHLORODIBORANE-TRISAMMONIA  
CA 21.9411INORG. LIQUIDCAL D 1.3990 MD 224.3 04444444 T -0.  
H 10 O 2CL 2 N 2  
MW 130.65 MI 16.48 MA 0.1083 MD 6.27 EM 401.17 GR 251.34

B 27

BC1

2-CHLOROBORAZINE  
NACP 2.284 ORBAN. LIQUIDCAL D 1.1077 MD 203.0 04444444 T -34.60  
H 5 O 3CL 1 N 1  
MW 80.96 MI 10.10 MA 0.0781 MD 3.84 EM 208.37 GR 156.03

2,4-DICHLOROBORAZINE  
NACP 1.8124 INORG. SOLIDCAL D 1.3871 MD 203.1 04444444 T 33.29  
H 4 O 3CL 2 N 3  
MW 149.43 MI 12.52 MA 0.0700 MD 2.24 EM 349.24 GR 223.22

2,4,6-TRICHLOROBORAZINE  
H 131.2041INORG. SOLIDCAL D 1.6251 MD 203.2 04444444 T 84.00  
H 3 O 3CL 3 N 3  
MW 189.88 MI 12.72 MA 0.0677 MD 1.00 EM 392.93 GR 319.65

BORAZINUM TRICHLOROBORAZINE  
CA 21.9411INORG. UNKNOWNCAL D 1.3478 MD 203.3 04444444 T -0.  
H 6 O 3CL 3 N 3  
MW 186.90 MI 13.72 MA 0.0683 MD 2.41 EM 395.13 GR 298.51

TRICHLOROBORAZINE TRIHYDRATE  
CA 21.9411INORG. UNKNOWNCAL D 1.2368 MD 203.4 04444444 T -0.  
H 9 O 3CL 3 N 3  
MW 237.93 MI 21.69 MA 0.0679 MD 2.82 EM 597.16 GR 187.01

TRICHLOROBORAZINE  
CA 46.7921INORG. UNKNOWNCAL D 2.1317 MD 203.5 04444444 T -0.  
H 3CL 3 O 3  
MW 186.83 MI 9.48 MA 0.0713 MD -0. EM 387.32 GR 441.65

TRICHLOROBORAZINE  
CA 49.1590INORG. UNKNOWNCAL D 2.6813 MD 203.6 04444444 T -0.  
H 3CL 3 S 3  
MW 235.01 MI 10.41 MA 0.0715 MD -0. EM 589.79 GR 403.31

CHLOROTETRABORANE  
CA 25.8881INORG. UNKNOWNCAL D 0.6804 MD 203.7 04444444 T -0.  
H 9 O 4CL 1  
MW 87.81 MI 14.08 MA 0.0657 MD 4.20 EM 206.62 GR 96.43

SODIUM TETRABORATE-SODIUM CHLORIDE  
CA 37.2446INORG. SOLIDCAL D 2.6498 MD 203.8 04444444 T -0.  
H 4CL 1NA 3 O 7  
MW 299.71 MI 15.64 MA 0.0781 MD -0. EM 211.71 GR 130.11

LITHIUM TETRACHLORIDE-BORON CHLORIDE  
CA 53.1898INORG. SOLIDCAL D 1.7240 MD 2.4 04110411 T -0.  
H 4CL 4  
MW 185.11 MI 8.68 MA 0.0487 MD -0. EM 783.35 GR 439.45

B 26

BC1

DICHLORODIBORANE-2-PHOSPHANE  
CA 34.3609INORG. UNKNOWNCAL D 1.4972 MD 202.0 04444444 T -0.  
H 10 O 2CL 2 P 2  
MW 166.82 MI 17.00 MA 0.0931 MD 5.48 EM 402.66 GR 220.63

TRISILINODIBORANE-3-HYDROCHLORIC ACID  
CA 13.1231INORG. UNKNOWNCAL D 1.9426 MD 202.1 04444444 T -0.  
H 6 O 2CL 3 H 3  
MW 176.08 MI 14.75 MA 0.0980 MD 3.99 EM 593.76 GR 396.96

DIBORON TETRACHLORIDE  
CA 13.1181INORG. GASET D 0.0073 MD 20.2 04144411 T -0.  
H 2CL 4  
MW 163.47 MI 6.74 MA 0.0002 MD -0. EM 780.57 GR 2.10

DIBORON TETRACHLORIDE-HYDROGEN SULFIDE  
CA 53.1940INORG. SOLIDCAL D 2.1616 MD 202.3 04444444 T -0.  
H 2 O 2CL 4 S 1  
MW 197.84 MI 10.04 MA 0.0682 MD 1.32 EM 782.79 GR 315.96

DIBORON TETRACHLORIDE-2-HYDROGEN SULFIDE  
CA 53.1940INORG. SOLIDCAL D 1.9251 MD 202.4 04444444 T -0.  
H 4 O 2CL 4 S 2  
MW 231.62 MI 13.34 MA 0.0688 MD 2.00 EM 755.02 GR 393.01

DIBORON TETRACHLORIDE-2-PHOSPHINE  
CA 53.1940INORG. SOLIDCAL D 1.7260 MD 202.5 04444444 T -0.  
H 6 O 2CL 4 P 2  
MW 231.67 MI 13.40 MA 0.0692 MD 2.69 EM 788.62 GR 354.21

DIBORON DIHYDROGEN TETRACHLORIDE-2-PHOSPHINE  
CA 34.3609INORG. UNKNOWNCAL D 1.3450 MD 202.6 04444444 T -0.  
H 8 O 2CL 4 P 2  
MW 233.68 MI 17.40 MA 0.0674 MD 3.19 EM 790.08 GR 314.91

DIBORON TETRACHLORIDE-5-7-AMMONIA  
NACP 2.264 INORG. SOLIDCAL D 2.1226 MD 202.7 04444444 T -0.  
H 17 O 2CL 4 N 6  
MW 246.63 MI 30.16 MA 0.0832 MD 4.69 EM 796.52 GR 220.66

BIS(BORON TRICHLORIDE)-TRISAMMONIA  
CA 13.1231INORG. UNKNOWNCAL D 1.7082 MD 202.8 04444444 T -0.  
H 6 O 2CL 6 N 3  
MW 293.48 MI 21.33 MA 0.0810 MD 3.41 EM 1179.30 GR 447.44

BIS(BORON TRICHLORIDE)-9-AMMONIA  
CA 13.1231INORG. UNKNOWNCAL D 1.1582 MD 202.9 04444444 T -0.  
H 27 O 2CL 6 N 9  
MW 387.87 MI 65.77 MA 0.0824 MD 4.86 EM 1198.98 GR 215.76

B 28

BC1

DIBORON TETRACHLORIDE-DIBORANE  
CA 44.2240INORG. LIQUIDCAL D 1.5894 MD 203.9 04444444 T -0.  
H 6 O 4CL 4  
MW 191.16 MI 14.68 MA 0.0735 MD 3.00 EM 787.75 GR 396.53

TRICHLORODIBORANE-4-AMMONIA  
CA 13.1231INORG. SOLIDCAL D 1.2946 MD 204.0 04444444 T -0.  
H 17 O 2CL 4 N 6  
MW 266.10 MI 30.93 MA 0.0898 MD 4.93 EM 801.53 GR 232.63

MAGNESIUM CHLORHEPTABORATE-BOROCITE  
CA 51.8561INORG. SOLIDCAL D 3.0617 MD 204.2 04444444 T -0.  
H 7CL 1MG 3 O 13  
MW 342.16 MI 24.52 MA 0.1193 MD -0. EM 205.81 GR 96.78

DIKARIS (POTASSIUM TETRAFLUOROBORATE)-POTASSIUM PERCHLORATE  
CA 29.2460INORG. SOLIDCAL D 2.3353 MD 204.3 04114441 T -0.  
H 8CL 1 P 32 K 9 O 4  
MW 1143.42 MI 98.06 MA 0.0865 MD -0. EM 408.29 GR 50.12

BIS (POTASSIUM TETRABORATE)-POTASSIUM CHLORIDE  
CA 37.2446INORG. SOLIDCAL D 2.3642 MD 204.4 04444444 T -0.  
H 8CL 1 K 9 O 14  
MW 541.52 MI 30.52 MA 0.0823 MD -0. EM 316.90 GR 83.34

DIKARIS DIKARIS  
CA 53.6946INORG. UNKNOWNCAL D 2.1992 MD 204.5 04444444 T -0.  
H 8CL 8  
MW 370.22 MI 17.36 MA 0.0809 MD -0. EM 1566.70 GR 549.36

11-POTASSIUM TETRAFLUOROBORATE-POTASSIUM CHLORIDE  
CA 54.1048INORG. SOLIDCAL D 2.3242 MD 204.6 04444444 T 590.20  
H 11CL 1 F 44 K 12  
MW 1459.68 MI 67.11 MA 0.0835 MD -0. EM 480.13 GR 46.05

HEXAMAGNESIUM DICHLOROTETRADECABORATE-BORACITE  
CA 13.5511INORG. GLASSAND D 3.0000 MD 11.0 00000000 T -0.  
H 14CL 2MG 6 O 76  
MW 784.33 MI 49.04 MA 0.1130 MD -0. EM 411.61 GR 94.83

6-MAGNESIUM OXIDE-B-BORIC OXIDE-1-MAGNESIUM CHLORIDE-BORACITE  
MI 10.6499INORG. SOLIDCAL D 2.9500 MD 11.1 00000000 T -0.  
H 16CL 2MG 7 O 30  
MW 894.27 MI 56.16 MA 0.1116 MD -0. EM 414.94 GR 82.45

B 24

BCI/BD

10-BORIC ACID-2-SODIUM OXIDE-SODIUM CHLORIDE  
 CA 26. 211010RG. SOLIDICAL D 2.7861 NO 200.0 04444444 T -0.  
 H 20CL 1NA 3 D 32  
 Mh 878.81 MI 88.33 MA 0.1114 MD -0. EM 241.80 GR 48.17

BORON DEUTERIDE  
 CA 36. 441210RG. GASEST D 0.0004 NO 436.1 14444444 T -0.  
 H 1 D 1  
 Mh 12.63 MI 1.85 MA 0.0001 MD 0.00 EM 1.39 GR 0.00

BORON TRIFLUORIDE-MONODEUTERIATE  
 CA 32. 319010RG. LIQUIDKND D 1.8477 NO 178.8 04444444 T 11.00  
 H 1.8 1 D 1 P 3 D 1  
 Mh 84.84 MI 7.71 MA 0.0088 MD 2.36 EM 2.35 GR 3.01

BORON TRIFLUORIDE-DIDEUTERIATE  
 CA 32. 319010RG. LIQUIDKND D 1.7228 NO 178.9 04444444 T 11.30  
 H 1 D 2 F 3 D 1  
 Mh 87.85 MI 7.59 MA 0.0087 MD 2.36 EM 1.61 GR 1.91

BORON TRIFLUORIDE-AMMONIA-D3  
 CA 32. 125910RG. UNKNOWCAL D 1.7777 NO 204.7 04444444 T -0.  
 H 1 D 3 F 3 N 1  
 Mh 87.87 MI 8.55 MA 0.1034 MD 3.65 EM 2.69 GR 1.27

BORON TRIFLUORIDE-DEUTEROPHOSPHINIC ACID  
 CA 34. 838010RG. LIQUIDKND D 1.9058 NO 28.8 04444444 T -0.  
 H 1 D 3 F 3 D 4 P 1  
 Mh 168.84 MI 12.77 MA 0.0488 MD 2.04 EM 3.44 GR 2.34

BORANE-1-D3-TRIFLUOROMETHYLPHINE  
 CA 30. 919810RG. GASEST D 0.7049 NO 204.8 04444444 T -115.10  
 H 1 D 3 F 3 P 1  
 Mh 104.84 MI 8.81 MA 0.0002 MD 0.01 EM 3.44 GR 0.01

BORIC ACID-D3  
 CA 34. 107010RG. SOLIDICAL D 1.4381 NO 204.9 04444444 T -0.  
 H 1 D 3 D 3  
 Mh 64.86 MI 8.98 MA 0.0879 MD 4.01 EM 1.40 GR 1.88

BORON TRIFLUORIDE-BISWATER-D21  
 CA 31. 146910RG. UNKNOWCAL D 1.5374 NO 205.0 04444444 T -0.  
 H 1 D 4 P 3 D 2  
 Mh 107.88 MI 10.34 MA 0.0888 MD 3.43 EM 1.62 GR 1.39

DIBORANE-D1  
 CA 33. 675010RG. GASEST D 0.0013 NO 205.1 04444444 T -0.  
 H 3 R 2 D 1  
 Mh 28.84 MI 7.87 MA 0.0012 MD 0.02 EM 6.44 GR 0.02

B 30

BD

DIBORANE-D3  
 CA 33. 675010RG. GASEST D 0.0013 NO 205.2 04444444 T -0.  
 H 1.8 2 D 5  
 Mh 32.72 MI 7.34 MA 0.0002 MD 0.02 EM 3.52 GR 0.01

DIBORANE-D6  
 CA 33. 1047210RG. GASEST D 0.0015 NO 205.3 04444444 T -165.70  
 H 2 D 6  
 Mh 33.73 MI 7.22 MA 0.0002 MD 0.02 EM 2.78 GR 0.01

BISBORONTRIFLUORIDE-TRIDEUTERIOPHOSPHORIC ACID  
 CA 34. 838910RG. UNKNOWCAL D 1.9589 NO 205.4 04444444 T -0.  
 H 2 D 6 F 6 D 8 P 2  
 Mh 337.88 MI 23.54 MA 0.0892 MD 2.10 EM 4.88 GR 2.41

DIBORANE-BISAMMONIA-D31  
 CA 34. 187110RG. UNKNOWCAL D 0.7576 NO 205.5 04444444 T -0.  
 H 6 R 2 D 4 N 2  
 Mh 67.79 MI 15.36 MA 0.1036 MD 8.08 EM 9.34 GR 6.29

DIBORANE-D61-BISAMMONIA  
 CA 34. 187110RG. UNKNOWCAL D 0.7576 NO 205.6 04444444 T -0.  
 H 6 R 2 D 4 N 2  
 Mh 67.79 MI 15.36 MA 0.1036 MD 8.08 EM 9.34 GR 6.29

DIBORANE-D61-BISAMMONIA-D11  
 CA 32. 437710RG. UNKNOWCAL D 0.8196 NO 205.7 04444444 T -0.  
 H 2 D 12 N 2  
 Mh 73.83 MI 14.64 MA 0.0979 MD 8.02 EM 4.96 GR 3.30

METABORIC ACID-D3  
 CA 34. 107010RG. UNKNOWCAL D 1.6950 NO 205.8 04444444 T -0.  
 H 3 D 3 D 8  
 Mh 136.50 MI 11.49 MA 0.0956 MD 2.49 EM 4.18 GR 3.48

PENTABORANE-D8  
 CA 31. 1184410RG. UNKNOWCAL D 0.9602 NO 205.9 04444444 T -0.  
 H 1.8 5 D 8  
 Mh 71.23 MI 12.89 MA 0.1047 MD 7.31 EM 7.69 GR 6.25

PENTABORANE-D9  
 CA 31. 1184410RG. UNKNOWCAL D 0.9722 NO 206.0 04444444 T -47.00  
 H 5 D 7  
 Mh 72.73 MI 12.77 MA 0.1053 MD 7.30 EM 6.96 GR 5.64

DECABORANE-D4  
 CA 34. 730910RG. UNKNOWCAL D 1.0649 NO 206.1 04444444 T -0.  
 H 8 R 10 D 8  
 Mh 128.33 MI 22.98 MA 0.1148 MD 7.00 EM 14.79 GR 9.89

B 31

10/10P

DECABORANE-D14  
 CA 34. 291010RG. UNKNOWCAL D 1.1210 NO 206.2 04444444 T -0.  
 H 10 D 14  
 Mh 136.81 MI 22.02 MA 0.1092 MD 6.94 EM 13.92 GR 6.90

BORON FLUORIDE  
 CA 34. 728010RG. GASEST D 0.0013 NO 206.3 04444444 T -0.  
 H 1 F 1  
 Mh 29.82 MI 2.26 MA 0.0001 MD -0. EM 1.47 GR 0.00

TRIMETHOXYFLUOROBORIC ACID  
 CA 34. 167610RG. LIQUIDCAL D 1.3649 NO 206.4 04444444 T -0.  
 H 4 R 1 F 1 D 3  
 Mh 81.85 MI 9.23 MA 0.0927 MD 4.02 EM 4.41 GR 4.42

FLUOROBORANE-BISAMMONIA  
 CA 34. 91210RG. UNKNOWCAL D 0.9265 NO 442.4 04444444 T -0.  
 H 8 R 1 F 1 N 2  
 Mh 69.90 MI 12.40 MA 0.1050 MD 8.77 EM 9.41 GR 8.04

BORON OXYFLUORIDE  
 CA 33. 917310RG. UNKNOWCAL D 1.9586 NO 206.5 04444444 T -0.  
 H 1 F 3 D 1  
 Mh 45.82 MI 3.25 MA 0.0686 MD -0. EM 1.47 GR 3.01

BORON DIFLUORIDE  
 CA 34. 781010RG. GASEST D 0.0021 NO 436.2 04444444 T -0.  
 H 1 F 2  
 Mh 48.82 MI 3.25 MA 0.0001 MD -0. EM 1.54 GR 0.00

AMINOFLUOROBORINE  
 CA 31. 555610RG. UNKNOWCAL D 0.9657 NO 206.6 04444444 T -0.  
 H 2 R 1 F 2 N 1  
 Mh 64.84 MI 8.62 MA 0.0594 MD 1.79 EM 4.09 GR 3.67

AMINOFLUOROBORANE POLYMER  
 CA 31. 555610RG. UNKNOWCAL D 1.7893 NO 411.3 04444444 T -0.  
 H 2 R 1 F 2 N 1  
 Mh 64.84 MI 8.62 MA 0.1100 MD 3.32 EM 4.09 GR 6.79

SODIUM DIMETHOXYDIFLUOROBORATE  
 CA 34. 49010RG. UNKNOWCAL D 1.8399 NO 206.7 04444444 T -0.  
 H 2 R 1 F 2 NA 1  
 Mh 73.83 MI 6.76 MA 0.1015 MD 3.00 EM 6.90 GR 10.36

HYDROGEN DIMETHOXYDIFLUOROBORATE-DIMETHOXYFLUORIC ACID  
 CA 33. 1767310RG. LIQUIDKND D 1.6605 NO 8.8 01410444 T -0.  
 H 3 R 1 F 2 D 2  
 Mh 83.84 MI 8.53 MA 0.1018 MD 3.58 EM 3.74 GR 4.47

B 32

10P

DIMETHYL AMINOFLUOROBORINE  
 CA 31. 1277210RG. LIQUIDCAL D 1.7584 NO 206.8 04444444 T -120.00  
 H 6 R 1 F 2 N 161 2  
 Mh 125.06 MI 13.14 MA 0.1113 MD 5.08 EM 8.98 GR 7.27

MAGNESIUM POTASSIUM BORATE FLUORIDE SILICATE  
 CA 33. 228010RG. SOLIDICAL D 2.8807 NO 206.9 04444444 T -0.  
 H 1 F 2 R 1 MG 3 U 1051 3  
 Mh 405.15 MI 22.43 MA 0.0954 MD -0. EM 27.76 GR 11.81

MAGNESIUM HYDROXYFLUOROBORATE  
 CA 34. 2067910RG. SOLIDICAL D 2.7886 NO 207.0 04444444 T -0.  
 H 2 R 3 F 2 MG 9 U 11  
 Mh 562.36 MI 35.81 MA 0.1070 MD 0.60 EM 10.48 GR 3.78

BORON TRIFLUORIDE  
 CA 33. 120210RG. GASEST D 0.0030 NO 2.5 01440444 T -127.00  
 H 1 F 3  
 Mh 67.82 MI 4.44 MA 0.0001 MD -0. EM 1.61 GR 0.00

POTASSIUM TRIFLUOROMETHOXYBORATE  
 CA 33. 1386010RG. UNKNOWCAL D 2.1049 NO 207.1 04444444 T -0.  
 H 1 R 1 F 3 K 1 U 1  
 Mh 123.93 MI 8.37 MA 0.0856 MD 1.02 EM 7.48 GR 25.18

SODIUM TRIFLUOROMETHOXYBORATE  
 CA 34. 49010RG. UNKNOWCAL D 2.2000 NO 207.2 04444444 T -0.  
 H 1 R 1 F 3 NA 1  
 Mh 91.82 MI 7.05 MA 0.1017 MD 1.44 EM 6.24 GR 9.01

SODIUM HYDROXYTRIFLUOROBORATE  
 CA 31. 289410RG. SOLIDICAL D 2.2446 NO 207.3 04444444 T -0.  
 H 1 R 1 F 3 NA 1 D 1  
 Mh 107.82 MI 8.04 MA 0.1068 MD 1.25 EM 6.24 GR 7.83

LITHIUM AMINOTRIFLUOROBORATE  
 CA 30. 44310RG. UNKNOWCAL D 1.8137 NO 207.4 04444444 T -0.  
 H 2 R 1 F 3 Li 1 N 1  
 Mh 90.78 MI 8.92 MA 0.1073 MD 2.41 EM 4.24 GR 4.10

TRIFLUOROHYDROXYBORIC ACID  
 CA 34. 519110RG. UNKNOWCAL D 1.7518 NO 207.5 04444444 T -0.  
 H 2 R 1 F 3 O 1  
 Mh 85.84 MI 7.83 MA 0.0961 MD 2.46 EM 3.08 GR 3.79

BORON TRIFLUORIDE MONOMETHANIL FLUOBORIC ACID  
 CA 34. 242710RG. LIQUIDKND D 1.8000 NO 2.8 01144444 T 6.00  
 H 2 R 1 F 3 O 1  
 Mh 85.84 MI 7.83 MA 0.0961 MD 2.46 EM 3.08 GR 3.79

U 33

BP

BORON TRIFLUORIDE-HYDROGEN SULFIDE  
GM 13. 1881NORG. UNKNOWCAL D 1.9993 NO 207.6 04444444 T -137.00  
H 2 8 1 F 3 3 1  
Mw 101.40 MI 8.14 NA 0.0962 MD 2.36 EM 3.84 GR 4.54

MAGNESIUM TRIFLUORIDE-TRIPYRIDYLTRIFLUOROBORATE-FLUOROBORATE  
GM 13. 341NORG. SOLIDNO D 1.9200 NO 11.2 00000000 T -0.  
H 3 8 1 F 3 3 0 4  
Mw 239.80 MI 17.44 NA 0.1279 MD 2.20 EM 5.42 GR 3.98

BORON TRIFLUORIDE-AMMONIATE  
GM 13. 1771NORG. SOLIDNO D 1.8640 NO 11.3 04006060 T 163.00  
H 3 8 1 F 3 3 1  
Mw 84.85 MI 8.91 NA 0.1179 MD 3.97 EM 4.89 GR 6.48

HYDROXYLAMINEBORFLUORIDE  
GM 13. 1761NORG. UNKNOWCAL D 1.8149 NO 207.7 04444444 T -0.  
H 3 8 1 F 3 3 1  
Mw 100.85 MI 9.90 NA 0.1073 MD 3.28 EM 4.90 GR 5.31

BORON TRIFLUORIDE-PHOSPHORIC ACID  
CA 36. 8581NORG. LIQUIDNO D 1.8883 NO 11.4 04444444 T -109.00  
H 3 8 1 F 3 3 0  
Mw 165.82 MI 13.13 NA 0.0901 MD 2.06 EM 5.84 GR 3.87

MURAPHE-PHOSPHORUS TRIFLUORIDE  
AD18. 0321NORG. UNKNOWCAL D 1.8063 NO 415.7 04444444 T -0.  
H 3 8 1 F 3 3 1  
Mw 101.82 MI 9.17 NA 0.0980 MD 3.21 EM 5.84 GR 6.02

ROKANE-PHOSPHORUS TRIFLUORIDE  
CA 36. 9148NORG. UNKNOWCAL D 1.8063 NO 207.8 04444444 T -116.10  
H 3 8 1 F 3 3 1  
Mw 101.82 MI 9.17 NA 0.0980 MD 3.21 EM 5.84 GR 6.02

BORON TRIFLUORIDE-DIHYDRATE  
CA 45. 656UNORG. GLASSCAL D 1.9598 NO 11.5 04444444 T -0.  
H 4 8 1 F 3 3 0 2  
Mw 107.83 MI 10.82 NA 0.0995 MD 3.68 EM 4.55 GR 4.14

BORON TRIFLUORIDE-PYROPHOSPHORIC ACID  
CA 47. 9127NORG. LIQUIDCAL D 2.0039 NO 207.9 04444444 T -82.00  
H 4 8 1 F 3 3 0 2  
Mw 245.80 MI 18.43 NA 0.0905 MD 1.96 EM 8.21 GR 4.03

BORON TRIFLUORIDE-HEXAMETHYLENE PENTAMIDE  
CA 51. 7095NORG. SOLIDNO D 1.4800 NO 11.6 04444444 T 47.00  
H 3 8 1 F 3 3 0  
Mw 156.81 MI 10.26 NA 0.0924 MD 2.84 EM 11.76 GR 6.88

U 35

BP

BORON TRIFLUORIDE-NITROGEN PENTOXIDE COMPLEX  
CA 59. 7107NORG. UNKNOWCAL D 2.4943 NO 209.0 04444444 T -0.  
H 1 F 3 3 0 5  
Mw 175.84 MI 11.45 NA 0.1003 MD -0. EM 3.78 GR 3.18

BORON TRIFLUORIDE-SULPHUR NITRIDE  
CA 52. 13902NORG. SOLIDCAL D 2.8734 NO 207.1 04444444 T -0.  
H 1 F 3 3 0 5  
Mw 436.36 MI 23.80 NA 0.0964 MD -0. EM 16.31 GR 6.47

BORON TRIFLUORIDE-SULPHUR DIOXIDE  
GM 13. 1861NORG. UNKNOWCAL D 2.5183 NO 209.2 04444444 T -96.00  
H 1 F 3 3 0 5  
Mw 131.88 MI 8.12 NA 0.0934 MD -0. EM 2.37 GR 2.73

HYDROGEN TETRAFLUOROBORATE-FLUOROBORIC ACID  
GM 13. 1901NORG. LIQUIDNO D 1.3600 NO 11.7 04444444 T -75.00  
H 1 F 3 3 0  
Mw 87.83 MI 7.13 NA 0.0645 MD 0.93 EM 2.42 GR 2.26

SULPHUR TETRAFLUOROBORATE  
CA 51. 14503NORG. UNKNOWCAL D 2.2338 NO 209.3 04444444 T -0.  
H 1 F 3 3 0 5  
Mw 183.89 MI 12.14 NA 0.0907 MD 0.73 EM 3.19 GR 2.33

LITHIUM TETRAFLUOROBORATE HYDRATE  
GM 20. 4931NORG. UNKNOWCAL D 2.2179 NO 209.4 04444444 T -0.  
H 2 F 3 3 0 5  
Mw 111.74 MI 10.13 NA 0.1211 MD 2.38 EM 3.23 GR 3.87

NITROSYL TETRAFLUOROBORATE HYDRATE  
CA 52. 6741NORG. UNKNOWCAL D 1.8162 NO 209.5 04444444 T -0.  
H 2 F 3 3 0 5  
Mw 136.84 MI 11.18 NA 0.0907 MD 1.62 EM 4.24 GR 3.44

BORON TRIFLUORIDE-PHOSPHOROTRIFLUORIDIC ACID  
CA 52. 6285NORG. SOLIDCAL D 2.0883 NO 209.6 04444444 T -0.  
H 2 F 3 3 0 5  
Mw 167.81 MI 12.43 NA 0.0932 MD 1.50 EM 4.98 GR 3.73

AMMONIUM TETRAFLUOROBORATE-AMMONIUM FLUOBORATE  
CA 51. 15051NORG. SOLIDNO D 1.8310 NO 2.7 00004440 T 230.00  
H 4 8 1 F 3 3 1  
Mw 106.86 MI 11.20 NA 0.1191 MD 4.23 EM 5.70 GR 6.04

HYDROXYLAMMONIUM TETRAFLUOROBORATE  
CA 52. 16114NORG. SOLIDCAL D 1.7623 NO 209.7 04444444 T 90.00  
H 4 8 1 F 3 3 1  
Mw 120.86 MI 12.19 NA 0.1073 MD 3.51 EM 5.70 GR 5.01

U 34

BP

BORON TRIFLUORIDE-DIAMMONIA  
GM 13. 1781NORG. UNKNOWCAL D 1.3704 NO 208.0 04444444 T -0.  
H 8 8 1 F 3 3 2  
Mw 101.88 MI 12.98 NA 0.1052 MD 4.88 EM 8.17 GR 6.62

BORON TRIFLUORIDE-TRIAMMONIA  
GM 13. 1781NORG. UNKNOWCAL D 1.19 NO 208.1 04444444 T -0.  
H 9 8 1 F 3 3 3  
Mw 118.92 MI 17.03 NA 0.1020 MD 5.42 EM 11.46 GR 6.91

BORON TRIFLUORIDE-3-WATER  
GM 13. 1821NORG. UNKNOWCAL D 1.3480 NO 208.2 04444444 T -0.  
H 8 8 1 F 3 3 3  
Mw 121.87 MI 13.81 NA 0.0920 MD 4.00 EM 6.02 GR 4.01

BORON TRIFLUORIDE-DISILANE AMMONIA  
CA 51. 12727NORG. UNKNOWCAL D 1.3399 NO 208.3 04444444 T -0.  
H 9 8 1 F 3 3 1 2  
Mw 147.08 MI 17.43 NA 0.1099 MD 3.68 EM 10.86 GR 6.85

BORON TRIFLUORIDE-HEPTAKIS-HYDROGEN SULFIDE  
GM 13. 1861NORG. UNKNOWCAL D 1.8388 NO 208.4 04444444 T -0.  
H 14 8 1 F 3 3 7  
Mw 306.35 MI 27.94 NA 0.0900 MD 4.91 EM 17.20 GR 5.94

BORON TRIFLUORIDE-POTASSIUM SULFATE  
GM 22. 8201NORG. SOLIDCAL D 2.0147 NO 208.5 04444444 T -0.  
H 1 F 3 3 0 4 5 1  
Mw 242.08 MI 13.18 NA 0.0881 MD -0. EM 46.90 GR 23.31

BORON TRIFLUORIDE-NITROGEN MONOXIDE  
GM 13. 1791NORG. UNKNOWCAL D 2.3430 NO 208.6 04444444 T -139.00  
H 1 F 3 3 0 1  
Mw 97.83 MI 6.90 NA 0.1080 MD -0. EM 2.69 GR 4.22

BORON TRIFLUORIDE-NITROUS OXIDE  
GM 13. 1761NORG. UNKNOWCAL D 2.4079 NO 208.7 04444444 T -0.  
H 1 F 3 3 0 1  
Mw 111.84 MI 7.97 NA 0.1034 MD -0. EM 3.77 GR 4.89

BORON TRIFLUORIDE-DINITROGEN TRIOXIDE  
CA 54. 19031NORG. SOLIDCAL D 2.3360 NO 208.8 04444444 T -0.  
H 1 F 3 3 0 3  
Mw 141.84 MI 9.93 NA 0.1015 MD -0. EM 3.78 GR 3.85

BORON TRIFLUORIDE-DINITROGEN TETROXIDE  
CA 52. 14986NORG. SOLIDCAL D 2.4460 NO 208.9 04444444 T 300.00  
H 1 F 3 3 0 4  
Mw 159.84 MI 10.44 NA 0.1008 MD -0. EM 3.78 GR 3.43

U 36

BP

TETRAFLUOROBORIC ACID-HYDRAZINE  
CA 51. 12730NORG. UNKNOWCAL D 1.3783 NO 209.3 04444444 T -0.  
H 3 8 1 F 4 3 2  
Mw 114.88 MI 12.27 NA 0.1052 MD 8.97 EM 7.51 GR 5.96

URANIUM TETRAFLUOROBORATE MONOHYDRATE  
CA 50. 7736NORG. LIQUIDCAL D 1.9586 NO 209.4 04444444 T -10.00  
H 5 8 1 F 4 3 2  
Mw 123.86 MI 13.11 NA 0.0930 MD 3.55 EM 5.36 GR 3.80

LITHIUM TETRAFLUOROBORATE-TRIMETHYLENE  
GM 20. 4931NORG. UNKNOWCAL D 1.8130 NO 11.8 04444444 T -0.  
H 8 8 1 F 4 3 1  
Mw 147.81 MI 18.11 NA 0.1190 MD 4.43 EM 6.17 GR 4.96

HYDRAZINE BIS(TETRAFLUOROBORATE)  
Mw 120.88 MI 14.27 NA 0.1083 MD 6.43 EM 8.25 GR 6.08

POTASSIUM TETRAFLUOROBORATE-POTASSIUM FLUOBORATE-AVOGADHITE  
CA 51. 34621NORG. SOLIDNO D 2.6200 NO 2.9 04404440 T -0.  
H 1 F 4 3 1  
Mw 125.92 MI 7.67 NA 0.0961 MD -0. EM 23.93 GR 10.01

LITHIUM TETRAFLUOROBORATE  
GM 20. 4931NORG. UNKNOWCAL D 2.4980 NO 210.2 04444444 T -0.  
H 1 F 4 3 1  
Mw 93.76 MI 7.14 NA 0.1132 MD -0. EM 1.76 GR 2.80

NITROSYL TETRAFLUOROBORATE  
GM 13. 1871NORG. SOLIDNO D 2.1850 NO 11.9 04444444 T 200.00  
H 1 F 4 3 1  
Mw 116.83 MI 8.19 NA 0.0923 MD -0. EM 2.77 GR 3.12

NITRONIUM TETRAFLUOROBORATE  
CA 51. 43521NORG. SOLIDCAL D 2.1806 NO 210.3 04444444 T -0.  
H 1 F 4 3 1  
Mw 132.83 MI 9.18 NA 0.0908 MD -0. EM 2.77 GR 2.74

BORON TRIFLUORIDE-SULFURNITROFLUORINE  
CA 54. 5314NORG. SOLIDCAL D 2.3940 NO 210.4 04444444 T -0.  
H 1 F 4 3 1  
Mw 132.89 MI 8.50 NA 0.0927 MD -0. EM 3.53 GR 3.83

SODIUM TETRAFLUOROBORATE-SODIUM FLUOBORATE-PERNUCITE  
CA 51. 124521NORG. SOLIDNO D 2.4960 NO 3.0 04404440 T 304.00  
H 1 F 4 3 1  
Mw 107.81 MI 7.34 NA 0.1005 MD -0. EM 5.58 GR 7.44

B 37 BF  
 DIFLUOROPHOSPHINODIFLUOROSULFONE  
 AD142. 026100G. UNKNOWNCAL D 2.0224 NO 419.0 04444444 T -0.  
 B 1 P 1  
 MW 117.79 MI 7.44 NA 0.1000 MD -0. EM 3.51 GR 4.11  
 BORON TRIFLUORIDE-BISPHENOLFLUORIC ACID  
 GM 13. 187100G. SOLIDCAL D 1.8361 NO 210.5 04444444 T 97.00  
 B 2 P 1 F 3  
 MW 107.84 MI 9.42 NA 0.0986 MD 2.03 EM 3.23 GR 3.31  
 POTASSIUM PENTAFLUOROBORATE  
 CA 24. 969000G. UNKNOWNCAL D 2.35 NO 210.6 04444444 T -0.  
 B 1 P 5 X 1  
 MW 144.92 MI 9.96 NA 0.0972 MD -0. EM 24.02 GR 23.38  
 DIPOTASSIUM PENTAFLUOROBORATE  
 GM 13. 187100G. SOLIDCAL D 2.18 NO 210.7 04444444 T -0.  
 B 1 P 5 X 2  
 MW 184.02 MI 10.90 NA 0.0749 MD -0. EM 46.28 GR 33.02  
 THIONYLFLUORIDEBORON TRIFLUORIDE  
 GM 13. 186100G. UNKNOWNCAL D 2.4780 NO 210.8 04444444 T -140.80  
 B 1 P 5 O 1 S 1  
 MW 153.88 MI 9.71 NA 0.0962 MD -0. EM 2.52 GR 2.45  
 BORON TRIFLUORIDE-TRIMETHYLSILOXANE  
 GM 13. 186100G. LIQUIDCAL D 2.7200 NO 210.4 04444444 T -0.  
 B 3 P 1 S 4  
 MW 127.04 MI 11.71 NA 0.2804 MD 6.67 EM 4.04 GR 8.98  
 BORON TRIFLUORIDE-SILFURNITROTRIFLUORINE  
 CA 54. 9316100G. LIQUIDCAL D 2.3536 NO 210.9 04444444 T 14.60  
 B 1 P 8 N 1 S 1  
 MW 170.84 MI 11.08 NA 0.0919 MD -0. EM 3.67 GR 3.05  
 TRISODIUM HEXAFLUOROBORATE  
 CA 20. 1499100G. SOLIDCAL D 2.3734 NO 211.0 04444444 T -0.  
 B 1 P 6 NA 3  
 MW 193.79 MI 12.34 NA 0.0910 MD -0. EM 13.32 GR 9.97  
 PHOSPHORUSOXYFLUORIDE HYDROTRIFLUORIDE  
 GM 13. 178000G. UNKNOWNCAL D 2.4759 NO 211.1 04444444 T -0.  
 B 1 P 4 O 1 F 1  
 MW 171.79 MI 11.03 NA 0.0998 MD -0. EM 3.66 GR 3.18  
 BORON TRIFLUORIDE-PHOSPHORUS TRIFLUORIDE  
 GM 13. 178100G. UNKNOWNCAL D 2.5123 NO 211.2 04444444 T -0.  
 B 1 P 6 P 1  
 MW 159.79 MI 10.04 NA 0.0975 MD -0. EM 3.68 GR 3.55

B 38 BF  
 DIBORON TETRAFLUORIDE  
 NACH. 049100G. SOLIDCAL D 1.3613 NO 212.2 04444444 T -36.00  
 B 2 P 4  
 MW 97.64 MI 7.10 NA 0.0884 MD -0. EM 3.08 GR 2.97  
 DIAMINO DIHYDRODI BORON BORON TETRAFLUORIDE  
 AD240. 021000G. UNKNOWNCAL D 1.4029 NO 442.6 04444444 T -0.  
 B 8 P 2 F 4 N 2  
 MW 133.72 MI 17.24 NA 0.1089 MD 5.06 EM 11.11 GR 7.02  
 DIBORON HEXAFLUORIDE  
 CA 54. 49067100G. SOLIDCAL D 1.9187 NO 212.3 04444444 T -0.  
 B 2 P 6  
 MW 135.84 MI 9.68 NA 0.0891 MD -0. EM 3.23 GR 2.17  
 HEXAFLUORODIBORANE-NITROUS ACID  
 CPAC 18. 100000G. SOLIDCAL D 2.0916 NO 433.2 04444444 T -0.  
 B 1 P 2 F 6 N 1 O 2  
 MW 182.66 MI 13.73 NA 0.0967 MD 0.69 EM 5.04 GR 3.48  
 BISBORON TRIFLUORIDE-NITRIC ACID  
 CA 44. 74520100G. SOLIDCAL D 2.4936 NO 212.4 04444444 T 93.00  
 B 1 P 2 F 6 N 1 O 3  
 MW 198.86 MI 14.73 NA 0.1095 MD 0.74 EM 5.04 GR 3.75  
 BISBORON TRIFLUORIDE-PHOSPHINE  
 CA 44. 5249100G. SOLIDCAL D 2.0036 NO 212.5 04444444 T -0.  
 B 3 P 2 F 6 P 1  
 MW 149.64 MI 14.01 NA 0.0997 MD 2.13 EM 7.25 GR 5.16  
 BISBORON TRIFLUORIDE-BIPHOSPHINE  
 CA 53. 2013100G. SOLIDCAL D 2.0283 NO 212.6 04444444 T -0.  
 B 4 P 2 F 6 P 2  
 MW 201.82 MI 16.34 NA 0.0990 MD 2.42 EM 9.81 GR 5.94  
 BISBORON TRIFLUORIDE-ORTHOPHOSPHORIC ACID  
 CA 54. 8389100G. UNKNOWNCAL D 1.9317 NO 212.7 04444444 T -0.  
 B 6 P 2 F 6 O 8 P 2  
 MW 331.44 MI 26.26 NA 0.0921 MD 2.11 EM 11.29 GR 3.96  
 BISBORON TRIFLUORIDE-NITROXYL FLUORIDE  
 GM 13. 186100G. UNKNOWNCAL D 2.2561 NO 212.8 04444444 T -0.  
 B 2 P 1 N 1 O 1  
 MW 184.85 MI 13.03 NA 0.0959 MD -0. EM 4.38 GR 3.22  
 MAGNESIUM TETRAFLUOROBORATE-HEXAHYDRATE  
 GM 27. 299100G. SOLIDCAL D 1.8490 NO 12.1 04444444 T -0.  
 B 12 P 2 F 8 O 6  
 MW 306.06 MI 31.42 NA 0.1143 MD 4.37 EM 12.72 GR 4.63

B 39 BF  
 BORON TRIFLUORIDE-PHOSPHORUS SULFUR TRIFLUORIDE  
 GM 13. 178100G. UNKNOWNCAL D 2.6328 NO 211.3 04444444 T -0.  
 B 1 P 6 P 1 S 1  
 MW 187.89 MI 11.34 NA 0.0957 MD -0. EM 4.42 GR 3.73  
 BORON TRIFLUORIDE-PHOSPHORODIFLUORIDIC ACID  
 CA 51. 13789100G. UNKNOWNCAL D 2.7379 NO 211.4 04444444 T -0.  
 B 2 P 1 F 7 O 4 P 2  
 MW 271.79 MI 18.62 NA 0.0924 MD 0.99 EM 7.03 GR 3.49  
 BORON TRIFLUORIDE-4-AMINOPHENOL  
 CA 52. 13502100G. UNKNOWNCAL D 2.7981 NO 211.5 04444444 T -0.  
 B 1 P 7 N 4 S 4  
 MW 328.09 MI 19.48 NA 0.1001 MD -0. EM 9.26 GR 4.76  
 BORON TRIFLUORIDE-SILFURNITROTRIFLUORIDE  
 CA 54. 3038100G. UNKNOWNCAL D 2.4228 NO 211.6 04444444 T -0.  
 B 1 P 7 O 1 S 1  
 MW 191.87 MI 12.29 NA 0.0939 MD -0. EM 2.67 GR 2.03  
 BORON TRIFLUORIDE-SULFUR TETRAFLUORIDE  
 CA 51. 5818100G. SOLIDCAL D 2.4483 NO 211.7 04444444 T 80.00  
 B 1 P 7 S 1  
 MW 175.88 MI 11.30 NA 0.0968 MD -0. EM 2.67 GR 2.24  
 BORIC OXIDE-LITHIUM FLUORIDE  
 GM 20. 493100G. SOLIDCAL D 2.5676 NO 211.8 04444444 T -0.  
 B 2 P 1 Li 1 O 3  
 MW 95.58 MI 7.21 NA 0.1187 MD -0. EM 2.94 GR 4.76  
 MAGNESIUM HYDRO-FLUOROBORATE  
 CA 20. 1776100G. SOLIDCAL D 2.8900 NO 2.6 04444444 T -0.  
 B 2 P 2 F 2 H 6 O 8  
 MW 335.88 MI 12.76 NA 0.1139 MD 1.04 EM 7.61 GR 3.95  
 AMMONIUMHYDROGEN DIFLUORODIBORATE  
 GM 25. 127100G. SOLIDCAL D 1.6999 NO 211.9 04444444 T -0.  
 B 5 P 2 F 2 N 1 O 3  
 MW 126.89 MI 13.58 NA 0.1094 MD 4.04 EM 7.60 GR 6.21  
 DIAMMONIUM DIFLUORODIBORATE TRIMYLATE  
 GM 25. 1327100G. SOLIDCAL D 1.9826 NO 212.0 04444444 T -0.  
 B 14 P 2 F 2 N 2 O 6  
 MW 249.87 MI 29.57 NA 0.1147 MD 5.43 EM 15.38 GR 5.96  
 4-MAGNESIA-BORIC OXIDE-3-FLUORINE(1F)-3-WATER  
 UM 17. 296100G. SOLIDCAL D 2.6197 NO 212.1 04444444 T -0.  
 B 6 P 2 F 3 H 6 O 12  
 MW 422.01 MI 31.01 NA 0.1168 MD 2.24 EM 10.63 GR 3.97

B 40 BF  
 MAGNESIUM BORANFLUORIDE HEPTAHYDRATE  
 GM 27. 299100G. SOLIDCAL D 1.8467 NO 212.2 04444444 T -0.  
 B 14 P 2 F 2 H 6 O 8  
 MW 326.07 MI 30.41 NA 0.1181 MD 4.81 EM 14.19 GR 4.87  
 MAGNESIUM AMINOBORANFLUORIDE  
 GM 27. 299100G. SOLIDCAL D 1.5044 NO 213.0 04444444 T -0.  
 B 18 P 2 F 2 H 6 O 8  
 MW 300.25 MI 37.90 NA 0.1144 MD 5.43 EM 23.39 GR 7.12  
 MAGNESIUM TETRAFLUOROBORATE  
 CA 51. 4179100G. SOLIDCAL D 2.8276 NO 213.1 04444444 T -0.  
 B 2 P 8 O 1  
 MW 197.96 MI 11.48 NA 0.1160 MD -0. EM 3.71 GR 3.36  
 RURIC OXIDE-4-MAGNESIUM FLUORIDE  
 CA 52. 19878100G. SOLIDCAL D 2.9018 NO 213.2 04444444 T -0.  
 B 2 P 8 O 3  
 MW 318.92 MI 20.11 NA 0.1102 MD -0. EM 5.51 GR 3.02  
 3-LITHIUM METABORATE-2-LITHIUM FLUORIDE  
 GM 20. 492000G. GLASSCAL D 2.1731 NO 213.3 04444444 T 755.00  
 B 3 P 2 Li 5 O 6  
 MW 201.16 MI 16.48 NA 0.1083 MD -0. EM 4.72 GR 3.10  
 2,4,6-TRIFLUORO-1,3,5-TRISILVLOAZINE  
 CA 51. 11272100G. UNKNOWNCAL D 1.5753 NO 213.4 04444444 T -0.  
 B 9 P 3 F 3 N 3 S 1  
 MW 224.83 MI 22.77 NA 0.0961 MD 3.80 EM 16.38 GR 7.00  
 TRIFLUOROBOROXINE  
 GM 13. 194100G. UNKNOWNCAL D 2.4478 NO 213.5 04444444 T -0.  
 B 3 P 3 O 3  
 MW 137.46 MI 9.75 NA 0.1034 MD -0. EM 4.40 GR 4.76  
 POTASSIUM HYDROXYPENTAFLUOROBOROXOLATE  
 CA 54. 11796100G. UNKNOWNCAL D 2.1771 NO 213.6 04444444 T -0.  
 B 1 P 3 F 5 K 3 O 4  
 MW 309.77 MI 18.94 NA 0.0807 MD 0.42 EM 72.08 GR 30.51  
 FLUOBORIC ACID  
 CA 51. 9393100G. UNKNOWNCAL D 1.5188 NO 213.7 04444444 T -0.  
 B 9 P 3 F 4 O 6  
 MW 251.53 MI 25.59 NA 0.0943 MD 3.32 EM 11.23 GR 4.16  
 POTASSIUM HEXAFLUOROBOROXOLATE  
 CA 54. 11796100G. SOLIDCAL D 2.2658 NO 213.8 04444444 T -0.  
 B 3 P 6 K 3 O 3  
 MW 311.76 MI 18.24 NA 0.0798 MD -0. EM 71.40 GR 31.20

B 41

BY

TRISODIUM HEXAFLUOROTRISODIUM  
CA 53.21111111111111 SOLIDCAL D 2.3071 NO 213.9 04444444 T -0.  
M 3 F 6NA 3 0 3  
MW 263.43 MI 17.25 MA 0.0989 MD -0. EM 16.31 GR 9.33

TRISODIUM TRIFLUORIDE-POTASSIUM PYROPHOSPHATE  
CA 53.10596109610961 SOLIDCAL D 2.0896 NO 214.0 04444444 T -0.  
M 2 B 3 F 9 K 2 0 1 P 2  
MW 437.63 MI 24.19 MA 0.0803 MD -0.55 EM 54.48 GR 16.99

TRISODIUM TRIFLUORIDE-POTASSIUM ORTHOPHOSPHATE  
CA 33.9173109610961 SOLIDCAL D 2.0979 NO 214.1 04444444 T -0.  
M 3 F 9 K 3 0 4 P 1  
MW 415.73 MI 24.63 MA 0.0728 MD -0. EM 73.45 GR 21.90

TRISODIUM TRIFLUORIDE-SODIUM ORTHOPHOSPHATE  
CA 53.9173109610961 SOLIDCAL D 2.2403 NO 214.2 04444444 T -0.  
M 3 F 9NA 3 0 4 P 1  
MW 367.41 MI 21.44 MA 0.0861 MD -0. EM 18.35 GR 8.74

BISBORIC OXIDE-POTASSIUM FLUORIDE  
CA 22.8201096109610961 SOLIDCAL D 2.2403 NO 214.3 04444444 T -0.  
M 4 F 12NA 2 0 4 P 1  
MW 197.38 MI 12.65 MA 0.0991 MD -0. EM 27.91 GR 21.87

TETRAKISBORON TRIFLUORIDE-POTASSIUM PYROPHOSPHATE  
CA 33.9173109610961 SOLIDCAL D 2.0961 NO 214.4 04444444 T -0.  
M 4 F 12NA 4 0 4 P 2  
MW 801.63 MI 33.11 MA 0.0737 MD -0. EM 94.15 GR 20.81

TETRAKISBORON TRIFLUORIDE-SODIUM OXIDE  
CA 33.39811096109610961 SOLIDCAL D 2.2479 NO 214.5 04444444 T -0.  
M 4 F 12NA 2 0 1  
MW 333.26 MI 22.77 MA 0.0928 MD -0. EM 14.24 GR 3.79

TETRAKISBORON TRIFLUORIDE-SODIUM PYROPHOSPHATE  
CA 33.9173109610961 SOLIDCAL D 2.2733 NO 214.6 04444444 T -0.  
M 4 F 12NA 4 0 4 P 2  
MW 937.19 MI 33.79 MA 0.0861 MD -0. EM 29.69 GR 8.55

BIS(POTASSIUM TETRABORATE)-POTASSIUM FLUORIDE  
CA 37.2646109610961 SOLIDCAL D 2.3127 NO 214.7 04444444 T -0.  
M 8 F 1 K 5 0 14  
MW 525.06 MI 40.61 MA 0.0812 MD -0. EM 122.93 GR 32.51

9-BORIC OXIDE-4-SODIUM FLUORIDE-5-WATER  
CA 52.7702109610961 SOLIDCAL D 2.3736 NO 214.8 04444444 T -0.  
M 10 K 10 F 4NA 4 0 70  
MW 806.24 MI 49.50 MA 0.1187 MD 2.38 EM 17.16 GR 8.76

B 43

BY

POTASSIUM PERBORATE  
CA 17.2403109610961 SOLIDCAL D 2.0816 NO 215.8 04111111 T -0.  
M 2 B 1 K 1 0 4  
MW 119.94 MI 8.47 MA 0.0916 MD 2.16 EM 25.13 GR 27.17

POTASSIUM PERBORATE  
CA 22.8171096109610961 SOLIDCAL D 2.1489 NO 215.9 04111111 T -0.  
M 2 B 1 K 1 0 5  
MW 131.94 MI 9.46 MA 0.0928 MD 1.98 EM 25.13 GR 24.65

LITHIUM PERBORATE  
CA 20.4991096109610961 SOLIDCAL D 2.0413 NO 216.0 04444444 T -0.  
M 2 B 1 LI 1 0 4  
MW 83.78 MI 7.44 MA 0.1185 MD 2.94 EM 7.94 GR 4.32

LITHIUM FLUOROBORATE  
CA 20.4991096109610961 SOLIDCAL D 2.1346 NO 216.1 04444444 T -0.  
M 2 B 1 LI 1 0 5  
MW 99.78 MI 8.93 MA 0.1151 MD 2.88 EM 2.94 GR 3.79

BORAZIN  
CA 13.2411096109610961 SOLIDCAL D 2.0849 NO 216.2 04444444 T -0.  
M 2 B 1 M 1  
MW 26.86 MI 4.04 MA 0.0807 MD 3.01 EM 3.94 GR 3.92

SODIUM DIMYDROGEN ORTHOBORATE  
CA 53.25061096109610961 SOLIDCAL D 1.8878 NO 216.3 04444444 T -0.  
M 2 B 1 NA 1 0 3  
MW 83.83 MI 7.13 MA 0.0970 MD 2.71 EM 6.76 GR 9.17

SODIUM PERBORATE MONOHYDRATE  
CA 54.1587109610961 SOLIDCAL D 2.1759 NO 216.4 04111111 T -0.  
M 2 B 1 NA 1 0 4  
MW 99.83 MI 8.14 MA 0.1049 MD 2.63 EM 6.76 GR 8.87

SODIUM BORON SILICON OXIDE HYDRATE SEARLESITE  
CA 9.4311096109610961 SOLIDCAL D 2.45 NO 216.5 00000000 T -0.  
M 2 B 1 NA 1 0 751 2  
MW 204.01 MI 13.83 MA 0.0986 MD 1.45 EM 8.33 GR 6.03

SEARLESITE  
CA 28.4081096109610961 SOLIDCAL D 2.6041 NO 216.6 00000000 T -0.  
M 2 B 1 NA 1 0 951 1  
MW 207.92 MI 14.35 MA 0.1083 MD 1.51 EM 7.59 GR 5.69

BORANE  
CA 54.2008109610961 GASEST D 0.0006 NO 216.6 04444444 T -0.  
M 3 B 1  
MW 13.84 MI 3.97 MA 0.0001 MD 0.01 EM 3.59 GR 0.01

B 42

BY/BH

9-BORIC OXIDE-4-SODIUM FLUORIDE  
CA 52.7702109610961 SOLIDCAL D 2.6641 NO 214.9 04444444 T 625.00  
M 10 F 4NA 4 0 13  
MW 916.16 MI 34.35 MA 0.1074 MD -0. EM 24.61 GR 9.27

BORON HYDRIDE  
CA 59.1971096109610961 GASEST D 0.0005 NO 215.0 04444444 T 0.  
M 1 B 1  
MW 11.83 MI 1.97 MA 0.0001 MD 0.00 EM 2.13 GR 0.01

POTASSIUM PERBORATE  
CA 22.8171096109610961 SOLIDCAL D 2.2741 NO 215.2 04011111 T -0.  
M 1 B 1 K 1 0 4  
MW 116.93 MI 7.47 MA 0.0890 MD 1.19 EM 24.39 GR 27.07

MAGNESIUM HYDROGEN ORTHOBORATE  
CA 51.9861096109610961 SOLIDCAL D 2.4848 NO 215.4 04444444 T -0.  
M 1 B 1 MG 1 0 3  
MW 84.19 MI 8.18 MA 0.1096 MD 1.78 EM 2.86 GR 4.76

ETHANOLPOLYMER  
CA 13.1611096109610961 POLYMER D 1.0860 NO 411.7 04444444 T -0.  
M 1 B 1 M 1  
MW 25.89 MI 3.04 MA 0.0770 MD 2.93 EM 3.20 GR 8.11

METABORIC ACID-1  
CA 13.1371096109610961 SOLIDCAL D 2.4860 NO 12.2 44116140 T 244.00  
M 1 B 1 O 2  
MW 43.83 MI 3.95 MA 0.1350 MD 3.42 EM 2.13 GR 7.27

METABORIC ACID-2  
CA 13.1371096109610961 SOLIDCAL D 2.0440 NO 12.3 44116140 T 200.90  
M 1 B 1 O 2  
MW 43.83 MI 3.95 MA 0.1110 MD 2.81 EM 2.13 GR 5.98

METABORIC ACID-3  
CA 13.1371096109610961 SOLIDCAL D 1.7800 NO 12.4 44116140 T 176.00  
M 1 B 1 O 2  
MW 43.83 MI 3.95 MA 0.0986 MD 2.45 EM 2.13 GR 5.71

PERRHIC ACID  
CA 20.31271096109610961 SOLIDCAL D 1.9041 NO 215.6 04444444 T -0.  
M 1 B 1 U 3  
MW 54.83 MI 4.94 MA 0.0947 MD 1.92 EM 2.13 GR 4.08

THIOMETABORIC ACID  
CA 13.1381096109610961 SOLIDCAL D 2.7161 NO 215.7 04444444 T 120.00  
M 1 B 1 S 2  
MW 75.95 MI 4.97 MA 0.0984 MD 2.15 EM 3.66 GR 7.84

B 44

BORON TRIFLUORIDE AMMONIA  
CA 13.1611096109610961 SOLIDCAL D 1.7222 NO 216.7 04444444 T -0.  
M 3 B 1 F 3 N 1  
MW 84.85 MI 8.71 MA 0.1049 MD 3.27 EM 4.89 GR 5.98

SODIUM HYPOBORATE  
CA 21.6501096109610961 SOLIDCAL D 1.8840 NO 216.8 04444444 T -0.  
M 3 B 1 NA 1 0 1  
MW 52.83 MI 6.17 MA 0.0991 MD 4.82 EM 7.44 GR 12.01

HYPOBORIC ACID  
CA 13.1361096109610961 SOLIDCAL D 1.2742 NO 217.0 04444444 T -0.  
M 3 B 1 U 2  
MW 45.84 MI 5.95 MA 0.0959 MD 4.83 EM 3.60 GR 5.79

ORTHOBORIC ACID-BORIC ACID-SASSOLITE  
CA 13.5311096109610961 SOLIDCAL D 1.4800 NO 4.6 00000000 T 174.00  
M 3 B 1 O 3  
MW 81.84 MI 6.94 MA 0.1000 MD 4.32 EM 3.60 GR 5.19

BORIC ACID  
CA 13.1441096109610961 SOLIDCAL D 1.0080 NO 12.5 00000000 T 181.00  
M 3 B 1 O 3  
MW 61.84 MI 6.94 MA 0.0881 MD 2.95 EM 3.60 GR 3.55

BORIC ACID-3-SULFUR TRIOXIDE  
CA 22.3611096109610961 SOLIDCAL D 2.1718 NO 436.4 04444444 T -0.  
M 3 B 1 U 9 5 3  
MW 254.02 MI 16.78 MA 0.0864 MD 1.54 EM 5.88 GR 3.03

BORON HYDROGEN SULFATE  
CA 54.6171096109610961 SOLIDCAL D 1.3716 NO 217.1 04444444 T -0.  
M 3 B 1 U 12 5 3  
MW 302.02 MI 19.75 MA 0.0540 MD 0.82 EM 5.89 GR 1.61

BORHYDROSULFIDE  
CA 13.1361096109610961 SOLIDCAL D 1.3720 NO 217.2 04444444 T -0.  
M 3 B 1 S 3  
MW 110.02 MI 7.87 MA 0.0591 MD 2.25 EM 5.87 GR 4.41

POTASSIUM BOROXYDIBORATE-POTASSIUM MONOHYDRIDE  
CA 53.7521096109610961 SOLIDCAL D 1.1100 NO 8.9 04111111 T -0.  
M 4 B 1 K 1  
MW 51.95 MI 6.51 MA 0.0807 MD 4.96 EM 26.54 GR 32.95

LITHIUM TETRAHYDROBORATE-LITHIUM BOROXYDIBORATE  
CA 20.4881096109610961 SOLIDCAL D 0.6810 NO 12.6 04111111 T 284.00  
M 4 B 1 LI 1  
MW 71.79 MI 5.96 MA 0.1126 MD 7.53 EM 4.40 GR 8.29

0 45 BH  
 LITHIUM PERBORATE  
 CA 32, 1291INORG. SOLIDCAL D 1.6705 NO 217.3 04444441 T -0.  
 H 4 8 1 1 1 0 4  
 MW 85.79 NI 7.94 NA 0.1186 MD 4.69 EM 4.41 GR 9.17  
 LITHIUM PERBORATE  
 GM 20, 492INORG. SOLIDCAL D 1.7840 NO 217.4 04444441 T -0.  
 H 4 8 1 1 1 0 5  
 MW 101.79 NI 10.93 NA 0.1184 MD 4.22 EM 4.41 GR 4.66  
 AMINOBORANE POLYMER  
 DUNG 6, 230INORG. SOLIDCAL D 0.5852 NO 411.4 04444441 T -0.  
 H 4 8 1 1 1  
 MW 29.86 NI 6.04 NA 0.0738 MD 4.89 EM 3.41 GR 6.00  
 AMMONIUM PERBORATE  
 GM 23, 323INORG. SOLIDCAL D 1.4798 NO 217.5 04444441 T -0.  
 H 4 8 1 1 1 0 3  
 MW 76.86 NI 9.01 NA 0.1049 MD 4.64 EM 5.41 GR 6.27  
 SODIUM BORON TETRAHYDRIDE-SODIUM BOROHYDRIDE  
 CA 35, 1213INORG. SOLIDCAL D 1.0740 NO 4.3 04114111 T -0.  
 H 4 8 1 1 1  
 MW 37.84 NI 6.10 NA 0.1034 MD 6.84 EM 8.22 GR 14.05  
 SODIUM TRIHYDROGENBORIC ACID  
 CA 33, 1675INORG. SOLIDCAL D 1.2482 NO 217.6 04444441 T -0.  
 H 4 8 1 1 1 0 1  
 MW 53.84 NI 7.17 NA 0.1080 MD 5.58 EM 8.22 GR 11.46  
 SODIUM METABORATE DIBORATE  
 CA 33, 1675INORG. SOLIDCAL D 1.8120 NO 217.7 04444441 T -0.  
 H 4 8 1 1 1 0 4  
 MW 101.84 NI 10.14 NA 0.1087 MD 4.29 EM 8.23 GR 8.82  
 PHOSPHINOBORANE  
 AD142, 081INORG. SOLIDCAL D 1.2258 NO 415.7 04444441 T -0.  
 H 4 8 1 1 1  
 MW 45.83 NI 6.30 NA 0.1018 MD 6.44 EM 6.19 GR 9.91  
 METABORIC ACID-TRIS HYDROFLUORIC ACID-HEMIHYDRATE  
 GM 13, 117INORG. UNKNOWCAL D 1.6800 NO 12.7 04444441 T -0.  
 H 8 8 1 1 1 0 2  
 MW 104.86 NI 21.82 NA 0.1141 MD 4.83 EM 5.29 GR 9.10  
 MAGNESIUM PENTAHYDROBORATE(12-)  
 CA 31, 1169INORG. SOLIDCAL D 1.0639 NO 217.8 04114111 T -0.  
 H 3 8 1 1 1 0 1  
 MW 40.18 NI 7.19 NA 0.1147 MD 7.97 EM 3.59 GR 8.72

0 46 BH  
 BIS(AMINO)BORANE  
 NACH 151231INORG. UNKNOWCAL D 0.4163 NO 217.9 04444444 T -0.  
 H 5 8 1 1 1  
 MW 29.87 NI 7.04 NA 0.0881 MD 4.20 EM 4.14 GR 9.15  
 BORANE-HYDRAZINE COPOLYMER(BN1.2H4.8)  
 CA 45, 5555INORG. SOLIDCAL D 0.8919 NO 411.5 04111111 T -0.  
 H 5 8 1 1 1  
 MW 29.87 NI 7.04 NA 0.1210 MD 8.59 EM 4.14 GR 10.95  
 SODIUM AMINOTRIHYDROBORATE  
 CA 32, 2680INORG. UNKNOWCAL D 1.0451 NO 218.0 04444444 T -0.  
 H 5 8 1 1 1 1  
 MW 52.86 NI 8.23 NA 0.0982 MD 5.95 EM 10.03 GR 11.95  
 DIAMINO(BORANE)  
 GM 13, 241INORG. UNKNOWCAL D 0.5072 NO 218.2 04444444 T -0.  
 H 5 8 1 1 1 2  
 MW 43.88 NI 6.11 NA 0.0969 MD 5.48 EM 7.22 GR 5.03  
 PERBORIC ACID  
 CA 31, 0966INORG. UNKNOWCAL D 1.3163 NO 218.3 04444441 T -0.  
 H 5 8 1 0 5  
 MW 95.86 NI 20.92 NA 0.0903 MD 4.14 EM 5.07 GR 4.19  
 SULFATOBORIC ACID  
 CA 34, 6375INORG. UNKNOWCAL D 2.0924 NO 218.4 04444441 T -0.  
 H 5 8 1 0 10 5 4  
 MW 400.1 NI 27.01 NA 0.0853 MD 1.58 EM 8.12 GR 2.56  
 BORON TRIFLUORIDE-BISAMMONIA  
 GM 13, 117INORG. UNKNOWCAL D 1.3704 NO 218.5 04444444 T -0.  
 H 8 8 1 1 1 3 2  
 MW 101.86 NI 12.98 NA 0.1058 MD 4.86 EM 8.17 GR 6.62  
 BORANE-AMMONIA  
 CA 30, 6130INORG. SOLIDCAL D 0.7400 NO 9.4 04114111 T 90.00  
 H 6 8 1 1 1  
 MW 30.88 NI 8.04 NA 0.1181 MD 8.66 EM 6.87 GR 9.92  
 TRIAMINO(BORANE)  
 GM 13, 241INORG. UNKNOWCAL D 0.5266 NO 218.6 04444444 T -0.  
 H 8 8 1 1 1 3  
 MW 58.89 NI 10.18 NA 0.0948 MD 5.23 EM 9.03 GR 4.88  
 SODIUM PERBORATE(12-)  
 CA 34, 1357INORG. SOLIDCAL D 1.7435 NO 218.7 04444441 T -0.  
 H 4 8 1 1 1 0 6  
 MW 135.86 NI 14.12 NA 0.1091 MD 4.84 EM 9.70 GR 7.50

0 47 BH  
 BORANE-HYDROXYLAMINE  
 NACH 14976INORG. LIQUIDCAL D 0.9238 NO 410.2 04444444 T -78.00  
 H 8 8 1 1 1 0 1  
 MW 101.85 NI 9.03 NA 0.1072 MD 7.12 EM 6.87 GR 8.16  
 BORANE-PHOSPHINE  
 GM 13, 100INORG. SOLIDCAL D 0.9433 NO 218.8 04444444 T -0.  
 H 8 8 1 1 1  
 MW 67.84 NI 8.30 NA 0.0986 MD 7.13 EM 7.62 GR 9.05  
 TRIPHOSPHINOBORANE POLYMER  
 CA 45, 10075INORG. UNKNOWCAL D 2.1223 NO 411.6 04444444 T -0.  
 H 8 8 1 1 1 3  
 MW 109.79 NI 10.96 NA 0.1276 MD 6.99 EM 11.26 GR 13.11  
 LITHIUM BOROHYDRIDE-AMMONIATE  
 CA 33, 11971INORG. UNKNOWCAL D 0.6440 NO 179.0 04444441 T -0.  
 H 7 8 1 1 1 1  
 MW 38.82 NI 10.05 NA 0.1004 MD 6.99 EM 7.88 GR 7.88  
 PERBORIC ACID  
 CA 31, 0966INORG. UNKNOWCAL D 1.3872 NO 219.7 04444441 T -0.  
 H 7 8 1 0 7  
 MW 129.86 NI 14.90 NA 0.0890 MD 4.18 EM 6.54 GR 3.90  
 AMMONIUM TETRAHYDROBORATE  
 CA 30, 1317INORG. SOLIDCAL D 0.5890 NO 219.0 04114111 T 180.00  
 H 8 8 1 1 1  
 MW 126.89 NI 10.04 NA 0.1083 MD 8.63 EM 8.34 GR 9.00  
 AMMONIUM PERBORATE DIBORATE  
 CA 35, 4901INORG. SOLIDCAL D 1.4283 NO 433.3 04444441 T -0.  
 H 8 8 1 1 1 0 5  
 MW 112.89 NI 14.99 NA 0.1142 MD 6.10 EM 8.35 GR 6.36  
 AMMONIUM METABORATE-2-HYDROGEN PEROXIDE  
 CA 35, 4901INORG. SOLIDCAL D 1.5210 NO 433.4 04444441 T -0.  
 H 8 8 1 1 1 0 6  
 MW 128.89 NI 19.48 NA 0.1136 MD 5.69 EM 8.35 GR 5.94  
 DISILICYLAMINOBORANE  
 NACH 2,285 INORG. SOLIDCAL D 0.8792 NO 219.1 04114111 T -40.00  
 H 8 8 1 1 1 1 2  
 MW 89.07 NI 12.56 NA 0.0747 MD 4.76 EM 9.90 GR 5.89  
 SODIUM TETRAHYDROBORATE DIBORATE  
 CA 45, 9361INORG. UNKNOWCAL D 1.0217 NO 219.2 04444444 T -0.  
 H 8 8 1 1 1 0 2  
 MW 73.87 NI 12.16 NA 0.1013 MD 6.66 EM 11.14 GR 9.30

0 48 BH  
 SODIUM METABORITE-4-WATER  
 GM 21, 854INORG. SOLIDCAL D 1.5825 NO 219.3 04444444 T 57.00  
 H 8 8 1 1 1 0 8  
 MW 137.87 NI 28.12 NA 0.1180 MD 9.46 EM 11.17 GR 7.62  
 SODIUM METABORATE-HYDROGEN PEROXIDE-3-WATER-SODIUM PERBORATE  
 CA 34, 18911INORG. SOLIDCAL D 1.6380 NO 219.4 04444441 T -0.  
 H 8 8 1 1 1 0 7  
 MW 154.87 NI 17.11 NA 0.1097 MD 9.13 EM 11.17 GR 7.16  
 BORON TRIFLUORIDE-TRISAMMONIA  
 GM 13, 117INORG. UNKNOWCAL D 1.19 NO 219.5 04444444 T -0.  
 H 9 8 1 1 1 3  
 MW 118.92 NI 17.05 NA 0.1028 MD 5.47 EM 11.46 GR 6.01  
 AMMONIUM AMINOTRIHYDROBORATE  
 CA 32, 2680INORG. UNKNOWCAL D 0.6892 NO 219.6 04444444 T -0.  
 H 4 8 1 1 1 2  
 MW 47.81 NI 12.11 NA 0.1049 MD 7.80 EM 10.13 GR 8.80  
 BORANE-TRIAMINOPHOSPHINE  
 CA 31, 19076INORG. UNKNOWCAL D 0.7375 NO 219.7 04444444 T -0.  
 H 9 8 1 1 1 3 1  
 MW 92.89 NI 14.51 NA 0.0894 MD 4.30 EM 13.06 GR 6.24  
 BORIC ACID TRIHYDRATE  
 CA 31, 3339INORG. UNKNOWCAL D 1.0845 NO 219.8 04444444 T -0.  
 H 9 8 1 0 8  
 MW 119.89 NI 19.41 NA 0.0897 MD 5.07 EM 8.00 GR 4.51  
 LITHIUM BOROHYDRIDE-BISAMMONIATE  
 CA 33, 21971INORG. UNKNOWCAL D 0.6340 NO 179.1 04444444 T -0.  
 H 10 8 1 1 1 1 2  
 MW 95.86 NI 14.12 NA 0.0996 MD 7.05 EM 10.97 GR 7.73  
 AMMONIUM ORTHOBORATE  
 CA 32, 7589INORG. SOLIDCAL D 0.9952 NO 219.9 04444444 T -0.  
 H 12 8 1 1 1 3 0 3  
 MW 112.94 NI 19.19 NA 0.1016 MD 6.37 EM 13.44 GR 7.11  
 TRIAMINOBORANE-3-HYDROGEN PEROXIDE  
 CA 37, 4998INORG. UNKNOWCAL D 1.2187 NO 220.0 04444444 T -0.  
 H 1 8 1 1 1 3 0 6  
 MW 160.94 NI 32.12 NA 0.1006 MD 5.46 EM 13.44 GR 6.12  
 LITHIUM BOROHYDRIDE-TRISAMMONIATE  
 CA 33, 11971INORG. UNKNOWCAL D 0.6880 NO 179.2 04444444 T -0.  
 H 13 8 1 1 1 1 3  
 MW 72.89 NI 18.14 NA 0.1004 MD 7.18 EM 14.25 GR 7.86

B 49

BH

LITHIUM BORONHYDRIDE-TETRAKISAMMONIATE  
CA 53.11971 INORG. UNKNOWN MO D 0.6750 NO 179.3 04444444 T -0.  
M 16 8 11 1 N 4  
MW 89.42 MI 22.26 NA 0.1006 MD 7.23 EM 17.93 GR 7.92

LITHIUM METABORATE-DECAHYDRATE  
CA 20. 221 INORG. SOLID MO D 1.4000 NO 12.8 04444444 T 47.00  
M 16 8 11 1 O 10  
MW 193.89 MI 27.88 NA 0.1213 MD 6.96 EM 13.22 GR 5.75

HEXAMINE MAGNESIUM ZINCHYDRATE  
CA 50. 1507 INORG. UNKNOWN MO D 0.7748 NO 220.1 04444444 T -0.  
M 22 8 11 1 N 6  
MW 141.36 MI 50.61 NA 0.1010 MD 7.26 EM 24.94 GR 8.10

SODIUM METABORATE-TRISODIUM PHOSPHATE-18-WATER  
CA 27. 293 INORG. SOLID MO D 1.4826 NO 220.7 04444444 T -0.  
M 36 8 11 1 N 4 O 24  
MW 594.03 MI 86.70 NA 0.1078 MD 5.80 EM 46.25 GR 7.29

BORIC OXIDE-0.42-WATER  
CA 94.2012 INORG. GLASS MO D 2.1538 NO 220.3 04444444 T -0.  
M 4 8 10 0 17  
MW 384.23 MI 30.53 NA 0.1031 MD 1.35 EM 16.95 GR 5.70

DIPOTASSIUM HYPOBORATE  
CA 32. 443 INORG. SOLID MO D 1.6116 NO 220.6 04444444 T -0.  
M 2 8 2 2 O 2  
MW 133.86 MI 9.00 NA 0.0736 MD 1.63 EM 46.77 GR 39.76

DIPOTASSIUM SUBBORATE  
CA 30. 442 INORG. SOLID MO D 1.9174 NO 220.7 04444444 T -0.  
M 2 8 2 2 O 4  
MW 165.86 MI 10.98 NA 0.0769 MD 1.39 EM 48.78 GR 33.97

POTASSIUM PERBORATE HEXAHYDRATE  
CA 22. 817 INORG. SOLID MO D 1.3598 NO 219.1 04114141 T -0.  
M 2 8 2 2 O 7  
MW 213.86 MI 13.95 NA 0.0936 MD 0.77 EM 48.78 GR 18.48

POTASSIUM PERBORATE  
CA 32. 911 INORG. SOLID MO D 2.3029 NO 219.3 04411414 T -0.  
M 2 8 2 2 O 9  
MW 245.86 MI 15.93 NA 0.0809 MD 1.13 EM 48.78 GR 27.52

MAGNESIUM DIBORATE MONOHYDRATE, MAGNESIUM PYROBORATE, CANSELLITE  
CA 16. 173 INORG. SOLID MO D 2.6700 NO 3.6 00000000 T -0.  
M 2 8 2 2 O 6  
MW 168.30 MI 17.47 NA 0.1168 MD 1.90 EM 5.33 GR 5.05

B 51

BH

BORIC SULFIDE-HYDROGEN SULFIDE  
CA 13. 134 INORG. SOLID MO D 2.7141 NO 221.5 04444444 T 120.00  
M 2 8 2 2 S 4  
MW 151.90 MI 9.14 NA 0.0984 MD 7.15 EM 7.28 GR 7.84

2,4-DIMERCAPTO-1,3,2,4-DITHIADIBORETANE  
CA 49.1595 INORG. SOLID MO D 2.1269 NO 221.6 04444444 T 120.00  
M 2 8 2 2 S 4  
MW 151.90 MI 9.14 NA 0.0771 MD 1.69 EM 7.28 GR 6.14

DIBORON TRIMIDE  
CA 49.1097 INORG. SOLID MO D 0.9808 NO 221.7 04444444 T -0.  
M 3 8 2 2 N 3  
MW 86.09 MI 8.15 NA 0.0782 MD 2.66 EM 8.22 GR 7.28

DIBORANE  
CA 22. 816 INORG. GASET D 0.0020 NO 221.8 04444444 T -0.  
M 2 8 2 2  
MW 45.30 MI 5.88 NA 0.0002 MD 0.01 EM 7.03 GR 0.02

DIPOTASSIUM SALT OF BETA-B2H6O2  
CA 32. 443 INORG. SOLID MO D 1.993 NO 221.9 04444444 T -0.  
M 4 8 2 2 O 2  
MW 135.87 MI 11.0 NA 0.0777 MD 2.82 EM 50.24 GR 35.48

TETRAHYDROGEN DIOXODIBORATE  
CA 13. 130 INORG. UNKNOWN MO D 1.2349 NO 222.0 04444444 T -0.  
M 4 8 2 2 O 2  
MW 57.67 MI 7.92 NA 0.1021 MD 5.16 EM 5.72 GR 7.38

SUB-BORIC ACID  
CA 53.1966 INORG. SOLID MO D 1.4993 NO 222.1 04044444 T -0.  
M 4 8 2 2 O 4  
MW 89.67 MI 9.90 NA 0.0971 MD 3.92 EM 5.72 GR 5.61

CHLORODIBORANE  
CA 43. 879 INORG. UNKNOWN MO D 0.9828 NO 222.2 04444444 T -104.00  
M 5 8 2 2 Cl 1  
MW 82.14 MI 8.14 NA 0.0776 MD 4.76 EM 700.90 GR 191.40

LITHIUM DIBORATE-2.5-WATER  
CA 18. 144 INORG. SOLID MO D 1.9026 NO 222.4 04444444 T -0.  
M 10 8 4 1 O 15  
MW 321.12 MI 32.77 NA 0.1149 MD 3.57 EM 13.24 GR 4.72

MAGNESIUM DIBORATE-AMMONIA-WATER  
CA 27. 298 INORG. SOLID MO D 2.0735 NO 222.5 04444444 T -0.  
M 5 8 2 2 N 1 O 6  
MW 161.01 MI 15.17 NA 0.1177 MD 3.88 EM 8.07 GR 6.26

B 50

BH

SODIUM METABORATE-HEXAHYDRATE  
CA 21. 654 INORG. SOLID MO D 2.3238 NO 219.5 04444444 T -0.  
M 2 8 2 2 N 6  
MW 149.44 MI 11.31 NA 0.1059 MD 1.87 EM 12.03 GR 11.78

MAGNESIUM PERBORATE MONOHYDRATE  
CA 27. 298 INORG. SOLID MO D 2.6372 NO 410.3 04444444 T -0.  
M 2 8 2 2 N 1 O 7  
MW 159.98 MI 12.09 NA 0.1200 MD 1.99 EM 4.79 GR 4.76

2-SODIUM OXIDE-BORIC OXIDE-WATER  
CA 21. 655 INORG. SOLID MO D 2.3132 NO 220.9 04444444 T -0.  
M 2 8 2 2 N 4 O 6  
MW 211.62 MI 14.72 NA 0.0949 MD 1.32 EM 19.84 GR 13.08

SODIUM DIBORATE HYDRATE  
CA 21. 653 INORG. SOLID MO D 2.3132 NO 221.0 04444444 T -0.  
M 2 8 2 2 N 4 O 6  
MW 211.62 MI 14.72 NA 0.0949 MD 1.32 EM 19.84 GR 13.08

HYPOSUBBORIC ACID  
CA 13. 136 INORG. UNKNOWN MO D 1.6679 NO 221.1 04444444 T -0.  
M 2 8 2 2 O 2  
MW 53.86 MI 9.92 NA 0.1089 MD 3.61 EM 4.23 GR 7.68

SUBBORIC ACID  
CA 53.1107 INORG. UNKNOWN MO D 1.7590 NO 221.2 04444444 T -0.  
M 2 8 2 2 O 3  
MW 71.66 MI 4.91 NA 0.1023 MD 2.96 EM 4.26 GR 6.29

DIMETABORIC ACID GAS  
CA 54. 947 INORG. GASET D 0.0039 NO 221.3 04444444 T -0.  
M 2 8 2 2 O 4  
MW 87.66 MI 7.90 NA 0.0002 MD 0.01 EM 4.26 GR 0.01

BORIC OXIDE-WATER  
CA 94.1879 INORG. SOLID MO D 1.827 NO 410.4 04444444 T -0.  
M 2 8 2 2 O 4  
MW 87.66 MI 7.9 NA 0.0889 MD 2.50 EM 4.26 GR 5.33

RISMETABORIC ACID-3-SULFUR TRIOXIDE  
CA 22. 861 INORG. UNKNOWN MO D 2.3019 NO 436.5 04444444 T -0.  
M 2 8 2 2 O 13 S 3  
MW 377.66 MI 20.71 NA 0.0876 MD 0.85 EM 6.55 GR 2.77

TRIMETABORIC ACID DIMER  
CA 53.2104 INORG. UNKNOWN MO D 2.7141 NO 221.4 04444444 T -0.  
M 2 8 2 2 S 4  
MW 151.90 MI 9.14 NA 0.0984 MD 7.15 EM 7.28 GR 7.84

B 52

BH

DIBORON HEXAHYDRIDE-DIBORANE-BORON HYDRIDE  
CA 13. 134 INORG. GASET D 0.0017 NO 3.1 01414141 T -165.90  
M 2 8 2 2  
MW 151.90 MI 7.94 NA 0.0002 MD 0.02 EM 7.19 GR 0.02

TETRAHYDROGEN MONOXODIBORATE-TRISODIUM HEXAFLUORIDE  
CA 13. 177 INORG. LIQUID MO D 1.6291 NO 222.6 04444444 T -0.  
M 6 8 2 2 F 2 O 9  
MW 209.89 MI 19.43 NA 0.0909 MD 2.81 EM 7.35 GR 3.44

DIPOTASSIUM HEXAHYDROXYDIBORATE  
CA 30. 442 INORG. SOLID MO D 1.6368 NO 222.7 04444444 T -0.  
M 6 8 2 2 N 6 O 6  
MW 201.89 MI 18.94 NA 0.0838 MD 2.46 EM 51.71 GR 25.55

POTASSIUM HEXAHYDROXYDIBORATE, POTASSIUM DIBORANE  
CA 22. 803 INORG. SOLID MO D 1.1800 NO 13.0 04401040 T 450.00  
M 6 8 2 2 N 6  
MW 109.89 MI 11.02 NA 0.0740 MD 4.03 EM 51.71 GR 34.71

POTASSIUM DIOXOHETEROXYDIBORATE  
CA 22. 807 INORG. SOLID MO D 1.3900 NO 13.1 04114441 T -0.  
M 6 8 2 2 N 6 O 2  
MW 137.89 MI 13.00 NA 0.0789 MD 3.64 EM 51.71 GR 31.40

MAGNESIUM METABORATE-TRIMETABORATE-PINNOITE, MAGNESIUM-BORIC OXIDE-3-WAT  
CA 13. 139 INORG. GLASS MO D 2.2800 NO 12.9 00040044 T -0.  
M 6 8 2 2 N 1 O 7  
MW 164.01 MI 16.09 NA 0.1347 MD 5.02 EM 7.33 GR 6.47

TRIS(MAGNESIUM HYDROXY DIBORANE)  
CA 27. 291 INORG. SOLID MO D 1.89 NO 222.8 04114441 T -0.  
M 6 8 2 2 N 3 O 3  
MW 148.65 MI 14.57 NA 0.1116 MD 4.59 EM 8.79 GR 6.73

TRIS(MAGNESIUM HEXAHYDROXYDIBORATE)  
CA 27. 291 INORG. SOLID MO D 2.0183 NO 222.9 04444444 T -0.  
M 6 8 2 2 N 6 O 6  
MW 198.89 MI 17.54 NA 0.1083 MD 3.71 EM 8.80 GR 5.43

MU-MU PRIME DIIMINODIBORANE  
CA 12.142 INORG. SOLID MO D 0.390 NO 223.0 04444444 T -0.  
M 6 8 2 2 N 2  
MW 55.70 MI 10.08 NA 0.0800 MD 3.97 EM 9.34 GR 5.56

SODIUM-DIBORANE  
CA 52.1078 INORG. SOLID MO D 1.0022 NO 223.1 04444444 T -0.  
M 6 8 2 2 N 1  
MW 50.88 MI 9.15 NA 0.1090 MD 7.15 EM 11.08 GR 13.20

B 33

XH

DISODIUM DISORANE  
CA 52.107810MORG. UNKNOWNCAL D 1.1804 NO 223.2 04444444 T -0.  
H 8 B 2 NA 2  
MW 73.67 MI 10.36 NA 0.1000 MD 5.79 EM 14.98 GR 14.45

SODIUM PERBORATE-1.5 WATER  
CA 52.3119MORG. SOLIDCAL D 2.0946 NO 216.9 04444444 T -0.  
H 6 B 2 NA 2 O 11  
MW 249.67 MI 21.25 NA 0.1074 MD 3.03 EM 14.99 GR 7.58

DIHYDROXYDISORANE  
UR 13. 1361MORG. UNKNOWNCAL D 0.9942 NO 223.1 04444444 T -0.  
H 8 B 2 O 2  
MW 59.69 MI 9.92 NA 0.0999 MD 6.02 EM 7.19 GR 7.21

DIBORON TRIOXIDE TRIMHYDRATE, BORON OXIDE TRIMHYDRATE, SASSOLITE  
MB  
INORG. SOLIDMO D 1.4900 NO 4.7 00000000 T -0.  
H 6 B 2 O 6  
MW 123.69 MI 13.68 NA 0.1007 MD 4.35 EM 7.19 GR 5.22

BORIC OXIDE-SULFUR TRIOXIDE-3-WATER  
GM 13. 1361MORG. SOLIDCAL D 2.1717 NO 223.4 04444444 T 215.00  
H 8 B 2 O 24 S 6  
MW 604.05 MI 39.50 NA 0.0855 MD 1.30 EM 11.77 GR 2.55

BORIC SULFIDE-3-HYDROGEN SULFIDE  
GM 13. 1361MORG. UNKNOWNCAL D 2.1723 NO 223.5 04444444 T -0.  
H 6 B 2 S 6  
MW 220.09 MI 13.74 NA 0.0986 MD 3.57 EM 11.74 GR 6.98

TETRAHYDROGEN HEXAFLUOROSULFATE TRIS(HYDROGENFLUORIDE)  
GM 13. 1171MORG. LIQUIDCAL D 1.9302 NO 223.6 04444444 T -0.  
H 7 B 2 F 3 O 2  
MW 197.70 MI 19.74 NA 0.0920 MD 3.26 EM 8.15 GR 3.80

POTASSIUM BOROHYDRIDE-BORANE COMPLEX  
A0234. 2721MORG. UNKNOWNCAL D 1.0102 NO 442.8 04444444 T -0.  
H 7 B 2 K 1  
MW 97.80 MI 10.48 NA 0.0941 MD 6.28 EM 10.18 GR 27.09

BORANE-LITHIUM TETRAHYDROBORATE  
CA 31. 1198MORG. UNKNOWNCAL D 0.9584 NO 223.7 04444444 T -0.  
H 7 B 2 Li 1  
MW 39.64 MI 9.05 NA 0.1008 MD 7.08 EM 8.00 GR 8.09

AMINODIBORANE, BORINAMINOBORINE  
CA 31. 671MORG. LIQUIDMO D 0.1400 NO 4.0 04440414 T -0.  
H 7 B 2 N 1  
MW 92.70 MI 10.01 NA 0.0849 MD 4.54 EM 9.00 GR 9.84

B 35

MH

AMINODIBORANE-SODIUM  
CA 33. 881MORG. UNKNOWNCAL D 0.9777 NO 224.7 04444444 T -0.  
H 9 B 2 N 2 NA 1  
MW 31.72 MI 14.29 NA 0.1029 MD 6.48 EM 15.14 GR 11.32

DIBORANE-PHYRAZINE  
CA 46. 9316MORG. SOLIDCAL D 0.7710 NO 224.4 04114411 T -0.  
H 10 B 2 N 2  
MW 99.74 MI 14.08 NA 0.1099 MD 7.77 EM 12.28 GR 9.55

AMINODIBORANE-AMMONIA  
CA 33. 881MORG. SOLIDCAL D 0.7710 NO 225.0 04444444 T -0.  
H 10 B 2 N 2  
MW 99.74 MI 14.08 NA 0.1099 MD 7.77 EM 12.28 GR 9.55

AMMONIUM PERBORATE HEXAMHYDRATE  
GM 13. 3891MORG. SOLIDCAL D 1.5639 NO 719.1 04444444 T -0.  
H 10 B 2 N 8 O 7  
MW 173.74 MI 31.01 NA 0.1190 MD 5.47 EM 12.29 GR 6.73

AMMONIUM PERBORATE-HYDRATE  
GM 23. 3261MORG. SOLIDCAL D 1.6222 NO 220.8 04444444 T -0.  
H 10 B 2 N 2 O 8  
MW 187.74 MI 32.00 NA 0.1148 MD 5.20 EM 12.29 GR 6.40

VISBORIC ACID-HYDROGEN PEROXIDE, PEROBORIC ACID  
CA 31. 8968MORG. UNKNOWNCAL D 1.3163 NO 223.1 04444444 T -0.  
H 10 B 2 O 10  
MW 191.72 MI 21.84 NA 0.0903 MD 4.14 EM 10.14 GR 4.19

BORON HYDRIDE-DIPHOSPHANE  
CA 33. 2913MORG. UNKNOWNCAL D 1.0632 NO 225.2 04444444 T -0.  
H 10 B 2 P 2  
MW 93.67 MI 14.60 NA 0.0998 MD 5.84 EM 13.77 GR 9.61

DISILICLANE-HYDROBORANE  
HACF 2. 2891MORG. UNKNOWNCAL D 0.7903 NO 225.3 04444411 T -0.  
H 11 B 2 N 1 Si 2  
MW 102.92 MI 18.53 NA 0.0785 MD 9.09 EM 13.30 GR 6.24

DIBORANE-PHOSPHINE-AMMONIA  
CA 34. 3609MORG. SOLIDCAL D 0.8969 NO 225.4 01144411 T -0.  
H 12 B 2 N 1 P 1  
MW 78.72 MI 16.14 NA 0.1121 MD 8.23 EM 14.49 GR 9.94

DIBORANE DIAMMONIATE  
CA 34. 17131MORG. SOLIDCAL D 0.6948 NO 225.5 04444411 T -0.  
H 12 B 2 N 2  
MW 61.75 MI 16.08 NA 0.1090 MD 8.13 EM 13.75 GR 9.32

B 34

BH

BORANE-IODIUM BOROHYDRIDE  
CA 34. 214121MORG. UNKNOWNCAL D 0.7254 NO 223.8 04444444 T -0.  
H 7 B 2 NA 1  
MW 31.69 MI 10.15 NA 0.0929 MD 6.41 EM 11.81 GR 10.81

CALCIUM BOROHYDRIDE  
CA 34. 180501MORG. UNKNOWNCAL D 1.1047 NO 223.9 04444444 T -0.  
H 8 B 2 CA 1  
MW 69.178 MI 21.32 NA 0.1098 MD 7.43 EM 12.64 GR 12.06

POTASSIUM AMINOMEXAHYDROBORATE  
CA 34. 206031MORG. SOLIDCAL D 1.0251 NO 224.0 04444444 T -0.  
H 8 B 2 K 1 N 1  
MW 82.61 MI 12.55 NA 0.0936 MD 5.98 EM 31.99 GR 23.85

MAGNESIUM TETRAHYDROBORATE(1-1)  
CA 34. 146041MORG. SOLIDCAL D 0.9456 NO 224.1 04114411 T 180.00  
H 8 B 2 Mg 1  
MW 54.02 MI 11.16 NA 0.1177 MD 8.43 EM 9.19 GR 9.69

MAGNESIUM-BORIC OXIDE-4-WATER  
GM 27. 2941MORG. SOLIDCAL D 1.8705 NO 224.2 04444444 T -0.  
H 8 B 2 Mg 1 O 8  
MW 182.02 MI 29.08 NA 0.1161 MD 4.93 EM 9.20 GR 5.69

SODIUM AMINOHYDROBORATE  
CA 48. 1871MORG. UNKNOWNCAL D 0.9536 NO 433.5 04444444 T -0.  
H 8 B 2 N 1 NA 1  
MW 66.70 MI 12.22 NA 0.1052 MD 6.89 EM 13.63 GR 11.74

DIAMINODIBORANE  
CA 25. 8361MORG. UNKNOWNCAL D 0.4717 NO 224.3 04444444 T -0.  
H 8 B 2 N 2  
MW 57.72 MI 12.08 NA 0.0998 MD 3.94 EM 10.81 GR 5.32

AMMONIUM METABORATE-DIMER  
GM 23. 3221MORG. SOLIDCAL D 1.3335 NO 224.4 04444444 T -0.  
H 8 B 2 N 2 O 4  
MW 131.72 MI 18.04 NA 0.1058 MD 9.28 EM 10.82 GR 7.14

SODIUM BORATE PERBORATE TETRAMORATE  
CA 33. 1909MORG. SOLIDCAL D 1.8600 NO 224.5 04444444 T 85.00  
H 8 B 2 NA 2 O 9  
MW 219.69 MI 21.27 NA 0.1085 MD 4.08 EM 16.46 GR 8.39

BORIC OXIDE-SULFUR TRIOXIDE-4-WATER  
GM 13. 2101MORG. SOLIDCAL D 1.8656 NO 224.6 04444444 T -0.  
H 8 B 2 O 10 S 1  
MW 271.76 MI 21.14 NA 0.0999 MD 3.40 EM 9.41 GR 4.01

B 36

BH

DIAMMONIATE OF DISORANE  
AD118. 0321MORG. UNKNOWNCAL D 0.8798 NO 416.0 04444444 T -0.  
H 12 B 2 N 2  
MW 41.75 MI 16.08 NA 0.1090 MD 6.19 EM 13.75 GR 9.32

DIBORANE-DIPHOSPHINE  
CA 34 3609 ORGAN. GASEST D 0.0043 NO 225.6 04114414 T -0.  
H 12 B 2 P 2  
MW 99.69 MI 16.80 NA 0.0084 MD 0.03 EM 15.23 GR 0.04

MAGNESIUM METABORATE-DIMER-6-WATER  
GM 27. 2941MORG. SOLIDCAL D 1.5744 NO 225.7 04444444 T -0.  
H 16 B 2 Mg 1 O 12  
MW 294.09 MI 31.04 NA 0.1159 MD 5.97 EM 15.08 GR 5.83

MAGNESIUM PHOSPHATE-BORIC OXIDE-11-WATER  
GM 13. 391MORG. SOLIDMO D 2.0500 NO 13.2 04404444 T -0.  
H 16 B 2 Mg 3 O 19 P 2  
MW 476.68 MI 41.07 NA 0.1116 MD 4.14 EM 19.80 GR 5.13

BORIC SULFIDE-6-AMMONIA  
GM 13. 1391MORG. UNKNOWNCAL D 1.2247 NO 225.8 04444444 T -0.  
H 18 B 2 N 6 S 3  
MW 220.01 MI 30.26 NA 0.1019 MD 6.06 EM 24.74 GR 8.33

3-MAGNESIA-BORIC OXIDE-10-WATER  
GM 27. 2981MORG. SOLIDCAL D 1.7047 NO 225.9 04444444 T -0.  
H 20 B 2 Mg 3 O 16  
MW 370.76 MI 41.44 NA 0.1148 MD 5.54 EM 19.08 GR 5.29

DIBORANE-10-AMMONIA  
GM 13. 1121MORG. UNKNOWNCAL D 0.3694 NO 226.0 04444444 T -0.  
H 35 B 2 N 10  
MW 178.01 MI 48.64 NA 0.0547 MD 4.04 EM 39.99 GR 4.49

TRISBORON TRIMHYDRIDE  
PB 1.223561MORG. UNKNOWNCAL D 1.2697 NO 436.6 04444444 T -0.  
H 3 B 3  
MW 39.48 MI 9.91 NA 0.1274 MD 6.47 EM 6.38 GR 13.74

BORAZOLE  
GM 13. 1361MORG. SOLIDCAL D 1.668 NO 226.1 04444444 T -0.  
H 3 N 3 O 3  
MW 93.48 MI 8.88 NA 0.1069 MD 3.61 EM 6.38 GR 7.68

METABORIC ACID-TRIMER  
CA 34. 107061MORG. SOLIDCAL D 1.6222 NO 226.2 04444444 T -0.  
H 3 B 3 O 6  
MW 131.48 MI 11.85 NA 0.0989 MD 2.50 EM 6.38 GR 5.33



B 57

BH

TRIMERCAPTOPYRIMIDINE  
CA 49,15590INORG. SOLIDCAL D 2.7141 NO 226.3 04444444 T 144.00  
H 3 8 3 5 6  
MW 227.84 MI 13.71 MA 0.0984 MD 2.15 EM 10.93 GR 7.86

LITHIUM TRIFLUOROBORATE TRIHYDRATE  
GM 20. 221INORG. SOLIDCAL D 1.9581 NO 226.4 04444444 T -0.  
H 6 8 3 1 1 0 8  
MW 173.45 MI 17.84 MA 0.1213 MD 4.08 EM 8.67 GR 5.89

GORAZOLE-TRIBORINE TRIAMINE-BORAZINE  
CA 51,13632INORG. LIQUIDKNO D 0.8800 NO 4.1 04444444 T -58.00  
H 8 0 3 3 1  
MW 80.83 MI 12.12 MA 0.0780 MD 3.86 EM 11.81 GR 7.40

BORAZINE  
GM 13. 181INORG. UNKNOWCAL D 0.6699 NO 410.7 04444444 T -0.  
H 6 8 3 3 1  
MW 80.93 MI 12.12 MA 0.0807 MD 3.01 EM 11.81 GR 5.92

TRIFORANE  
CA 50, 20681INORG. GASEST D 0.0018 NO 226.5 04444444 T -0.  
H 7 8 3 3  
MW 39.92 MI 9.93 MA 0.0003 MD 0.02 EM 9.31 GR 0.03

SODIUM OCTAHYDROTRIFLUOROBORATE  
CA 50, 6990INORG. SOLIDCAL D 0.9808 NO 226.6 04444444 T -0.  
H 8 8 3 4 1  
MW 65.81 MI 12.12 MA 0.1187 MD 7.50 EM 13.94 GR 13.07

2,4,6-TRIAMINOBORAZINE  
CA 51, 461INORG. UNKNOWCAL D 0.7942 NO 226.7 04444444 T -0.  
H 9 8 3 3 0  
MW 125.98 MI 18.33 MA 0.0698 MD 3.43 EM 17.25 GR 8.57

AMINOTRIFLUORANE  
CA 56,21978INORG. UNKNOWCAL D 0.5279 NO 433.6 04444444 T -0.  
H 10 8 3 3 1  
MW 56.59 MI 13.98 MA 0.0786 MD 5.62 EM 12.59 GR 7.08

ORTHOBORIC ACID-BORIC ACID-SULFUR TRIOXIDE-4-WATER  
CA 22, 381INORG. SOLIDCAL D 1.9641 NO 226.8 04444444 T -0.  
H 11 8 3 0 13 6 1  
MW 283.61 MI 28.08 MA 0.1173 MD 4.59 EM 13.02 GR 3.44

AMINOBORAZINE  
GM 13. 181INORG. UNKNOWCAL D 0.4717 NO 410.8 04444444 T -0.  
H 12 8 3 3 1  
MW 86.88 MI 18.12 MA 0.0895 MD 3.94 EM 16.22 GR 5.32

B 59

BH

TETRAFLORANE  
CA 50, 20881INORG. GASEST D 0.0022 NO 227.5 04444444 T -0.  
H 6 8 4  
MW 49.13 MI 9.88 MA 0.0003 MD 0.02 EM 9.97 GR 0.03

DIPOTASSIUM HEXAHYDROTRIFLUOROBORATE  
CA 50, 8093INORG. UNKNOWCAL D 1.4390 NO 227.7 04444444 T -0.  
H 8 8 4 4 2  
MW 187.63 MI 18.96 MA 0.0881 MD 4.08 EM 14.49 GR 17.04

LITHIUM TETRAFLUOROBORATE TRIHYDRATE  
CA 56,20890INORG. SOLIDCAL D 2.0486 NO 227.8 04444444 T -0.  
H 6 8 4 1 1 2 0 10  
MW 229.81 MI 21.80 MA 0.1217 MD 3.33 EM 10.14 GR 5.86

DISODIUM HEXAHYDROTRIFLUOROBORATE  
CA 50, 8093INORG. SOLIDCAL D 1.4238 NO 227.9 04444444 T -0.  
H 8 8 4 4 2  
MW 95.81 MI 12.30 MA 0.1107 MD 5.40 EM 17.76 GR 15.98

TETRAPOLYBORIC ACID  
CA 32, 443INORG. SOLIDCAL D 1.6536 NO 228.0 04444444 T -0.  
H 6 8 4 0 9  
MW 193.83 MI 18.79 MA 0.0988 MD 3.09 EM 9.98 GR 5.14

TETRABOROHYDROPHOSPHONIC ACID  
CA 59, 3636INORG. SOLIDCAL D 2.1412 NO 228.1 04444444 T -0.  
H 8 8 4 0 19 4  
MW 477.23 MI 34.01 MA 0.0919 MD 1.82 EM 17.24 GR 4.67

TETRAFLORANE  
CA 55,21350INORG. LIQUIDCAL D 0.3031 NO 228.2 04114411 T -0.  
H 8 8 4  
MW 91.84 MI 11.88 MA 0.1119 MD 7.34 EM 11.44 GR 10.78

TRIS-BORON TRIFLUORIDE-AMMONIUM TRIFLUOROBORATE  
CA 53,13860INORG. UNKNOWCAL D 1.6794 NO 228.3 04444444 T -0.  
H 8 8 4 6 12 2 0 1  
MW 323.36 MI 30.47 MA 0.0984 MD 2.50 EM 14.48 GR 4.53

DIPOTASSIUM OCTAHYDROTRIFLUOROBORATE  
CA 50, 8093INORG. SOLIDCAL D 1.2952 NO 228.4 04444444 T -0.  
H 8 8 4 4 2  
MW 129.54 MI 14.96 MA 0.0901 MD 4.82 EM 15.96 GR 13.70

POTASSIUM TETRAFLUOROBORATE-4-WATER  
GM 22. 812INORG. GLASSCAL D 1.9940 NO 228.5 04444444 T -0.  
H 8 8 4 4 2 0 11  
MW 305.84 MI 25.85 MA 0.1016 MD 3.14 EM 15.97 GR 22.00

B 58

BH

GORAZOLE-3-WATER  
CA 21, 561INORG. LIQUIDEST D 0.9000 NO 226.9 04444444 T -0.  
H 12 8 3 3 0 3  
MW 134.85 MI 21.09 MA 0.0850 MD 4.83 EM 16.22 GR 6.53

TRIS(AMMONIO)HYDROBORON BIS(TETRAHYDROBORATE)  
CA 52,12639INORG. SOLIDCAL D 0.6948 NO 227.0 04441111 T -0.  
H 18 8 3 3 3  
MW 92.43 MI 24.12 MA 0.1090 MD 8.13 EM 20.62 GR 9.32

TRIAMMONIATE OF DIBORANE  
ADE27. 251INORG. UNKNOWCAL D 0.6948 NO 416.1 04444444 T -0.  
H 18 8 3 3 3  
MW 92.43 MI 24.12 MA 0.1090 MD 8.13 EM 20.62 GR 9.32

MAGNESIUM DIBORATE MONOHYDRATE  
GM 27. 296INORG. SOLIDCAL D 2.8046 NO 410.9 04444444 T -0.  
H 2 8 4 4 2 0 8  
MW 197.62 MI 15.02 MA 0.1284 MD 1.71 EM 7.58 GR 6.48

IODIUM TETRABORATE-WATER  
GM 21, 648INORG. SOLIDCAL D 2.5630 NO 227.1 04444444 T -0.  
H 2 8 4 4 2 0 8  
MW 219.28 MI 18.22 MA 0.1142 MD 1.41 EM 14.84 GR 10.44

TETRABORON PENTOXIDE-WATER  
GM 13, 125INORG. SOLIDCAL D 2.0736 NO 436.7 04444444 T -0.  
H 2 8 4 0 6  
MW 141.80 MI 11.82 MA 0.1045 MD 1.77 EM 7.04 GR 6.23

BORIC OXIDE-0.50-WATER  
CA 54,20127INORG. GLASSCAL D 2.0831 NO 220.4 04444444 T -0.  
H 2 8 4 0 7  
MW 197.90 MI 12.81 MA 0.1022 MD 1.60 EM 7.04 GR 5.82

TETRABORIC ACID  
GM 13, 139INORG. SOLIDCAL D 2.0831 NO 227.2 04444444 T -0.  
H 2 8 4 0 7  
MW 197.80 MI 12.81 MA 0.1022 MD 1.60 EM 7.04 GR 5.82

SODIUM TETRABORATE DEHYDRATE  
GM 21, 600INORG. SOLIDCAL D 2.3362 NO 227.4 04444444 T -0.  
H 8 8 4 4 2 0 9  
MW 237.29 MI 19.21 MA 0.1159 MD 2.37 EM 16.30 GR 9.87

AMMONIUM HYDROGEN TETRABORATE  
CA 56, 8380INORG. SOLIDEST D 1.1000 NO 227.5 04444444 T -0.  
H 9 8 4 4 1 0 7  
MW 174.93 MI 16.88 MA 0.0447 MD 1.90 EM 10.32 GR 3.92

B 60

BH

LITHIUM TETRABORATE TETRAHYDRATE  
CA 54,20399INORG. SOLIDCAL D 1.9466 NO 228.6 04444444 T -0.  
H 8 8 4 1 2 0 11  
MW 241.22 MI 24.79 MA 0.1205 MD 3.89 EM 11.61 GR 5.64

DISODIUM OCTAHYDROTRIFLUOROBORATE  
CA 50, 8093INORG. SOLIDCAL D 1.2424 NO 228.9 04444444 T -0.  
H 8 8 4 4 2  
MW 97.83 MI 16.30 MA 0.1099 MD 6.15 EM 19.23 GR 14.78

SODIUM TETRABORATE TETRAHYDRATE  
GM 13, 55INORG. SOLIDCAL D 2.0457 NO 229.0 04444444 T -0.  
H 8 8 4 4 2 0 11  
MW 273.33 MI 29.19 MA 0.1186 MD 3.61 EM 19.24 GR 8.87

SODIUM TETRABORATE TETRAHYDRATE-KLEINITE, KASORITE  
GM 13, 55INORG. SOLIDKNO D 1.9000 NO 4.4 00000000 T -0.  
H 8 8 4 4 2 0 11  
MW 273.33 MI 29.19 MA 0.1085 MD 3.39 EM 19.24 GR 8.06

AMMONIUM TETRABORATE  
CA 36, 2221INORG. SOLIDCAL D 1.7874 NO 228.7 04444444 T -0.  
H 8 8 4 4 2 0 6  
MW 178.36 MI 19.96 MA 0.1223 MD 4.91 EM 13.60 GR 8.35

AMMONIUM TETRABORATE  
CA 53,12599INORG. SOLIDCAL D 1.8434 NO 228.8 04444444 T -0.  
H 8 8 4 4 2 0 7  
MW 191.36 MI 20.95 MA 0.1216 MD 4.64 EM 13.61 GR 7.89

TETRABORON MONAMIDEALDE  
CA 52,19386INORG. UNKNOWCAL D 0.7416 NO 229.1 04114411 T -0.  
H 8 8 4  
MW 92.35 MI 12.88 MA 0.1099 MD 7.68 EM 12.17 GR 10.18

TETRABORON DECAHYDROTRIFLUOROBORANE-BORANE HYDRIDE  
CA 53, 2907INORG. GASEST D 0.0026 NO 3.2 0144444 T -120.00  
H 10 8 4  
MW 55.36 MI 13.88 MA 0.0004 MD 0.03 EM 12.90 GR 0.03

DIPOTASSIUM DECAHYDROTRIFLUOROBORATE  
CA 50, 8421INORG. SOLIDCAL D 1.1808 NO 229.2 04444444 T -0.  
H 10 8 4 4 2  
MW 131.98 MI 16.96 MA 0.0917 MD 5.41 EM 17.42 GR 11.04

POTASSIUM TETRABORATE PENTAHYDRATE  
GM 22, 812INORG. SOLIDCAL D 1.9111 NO 229.3 04444444 T -0.  
H 10 8 4 4 2 0 12  
MW 323.56 MI 28.84 MA 0.1026 MD 3.56 EM 17.44 GR 20.43

B 61

BH

POTASSIUM-BORIC OXIDE-2.5-WATER  
 GR 22. 810INORG. SOLIDCAL D 1.9341 NO 222.3 04444444 T -0.  
 H 10 B 4 K 4 0 13  
 MW 417.76 MI 32.91 NA 0.0918 MD 2.79 EM 101.98 GR 28.43

POTASSIUM METABORATE-14-WATER  
 GR 22. 810INORG. SOLIDCAL D 1.9341 NO 216.3 04444444 T -0.  
 H 10 B 4 K 4 0 13  
 MW 417.76 MI 32.91 NA 0.0918 MD 2.79 EM 101.98 GR 28.43

LITHIUM TETRABORATE PENTAHYDRATE  
 GR 20. 221INORG. SOLIDCAL D 1.8926 NO 229.4 04444444 T -0.  
 H 10 B 5 LI 2 0 12  
 MW 299.24 MI 17.78 NA 0.1198 MD 4.30 EM 13.01 GR 5.63

SODIUM HYDROGEN TETRABORATE-4.5-WATER  
 GR 21. 671INORG. SOLIDCAL D 1.9135 NO 229.5 04444444 T -0.  
 H 20 B 5 NA 2 0 23  
 MW 520.70 MI 32.95 NA 0.1177 MD 4.43 EM 11.63 GR 7.46

SODIUM DECAHYDROTETRABORATE  
 GR 10. 805INORG. SOLIDCAL D 1.1070 NO 229.6 04444444 T -0.  
 H 10 B 4 NA 2 0 12  
 MW 490.34 MI 16.30 NA 0.1094 MD 6.71 EM 20.69 GR 13.89

SODIUM TETRABORATE-5-WATER  
 GR 13. 561INORG. SOLIDCAL D 1.8860 NO 13.7 00000000 T -0.  
 H 10 B 4 NA 2 0 12  
 MW 241.34 MI 28.18 NA 0.1099 MD 3.90 EM 20.71 GR 8.08

AMMONIUM HYDROGEN TETRABORATE TRIMETHYLAMMONIUM BORATE  
 GR 25. 881INORG. SOLIDCAL D 2.6000 NO 4.2 04114111 T -0.  
 H 11 B 4 N 1 0 10  
 MW 228.38 MI 25.85 NA 0.1773 MD 7.54 EM 14.73 GR 10.10

POTASSIUM TETRABORATE-HEXAHYDRATE  
 GR 22. 812INORG. SOLIDCAL D 1.8437 NO 229.7 04444444 T -0.  
 H 12 B 4 K 2 0 13  
 MW 341.98 MI 31.83 NA 0.1035 MD 3.90 EM 98.91 GR 19.15

1-MAGNESIUM OXIDE-6-BORIC ACID  
 GR 94. 949INORG. SOLIDCAL D 1.9089 NO 224.8 04444444 T -0.  
 H 12 B 4 MG 3 0 15  
 MW 368.34 MI 34.39 NA 0.1074 MD 3.75 EM 15.94 GR 4.99

TETRAHYDROGEN OXAMINOTETRAHYDROTETRABORATE  
 GR 25. 881INORG. SOLIDCAL D 0.8128 NO 231.3 04444411 T -0.  
 H 12 B 4 N 2 0 12  
 MW 284.39 MI 18.02 NA 0.1182 MD 7.74 EM 16.51 GR 10.68

B 62

BH

AMINODIBORANE-HYDROZOBORANE-AMINOBORANE-AMMONIA  
 GR 15. 167INORG. UNKNOMCAL D 0.7710 NO 237.9 04444444 T -0.  
 H 20 B 4 N 4  
 MW 119.47 MI 28.16 NA 0.1095 MD 7.77 EM 24.56 GR 8.55

TETRABORANE-TRIAMMONIUM  
 GR 13. 113INORG. SOLIDCAL D 0.7303 NO 231.9 04144441 T -0.  
 H 22 B 4 N 4  
 MW 121.49 MI 30.16 NA 0.1082 MD 7.97 EM 28.03 GR 9.62

TETRABORANE-HEXAKISAMMONIA  
 AD 118. 032INORG. UNKNOMCAL D 0.7185 NO 416.3 04444444 T -0.  
 H 28 B 4 N 6  
 MW 155.55 MI 38.30 NA 0.1086 MD 7.73 EM 32.59 GR 9.07

TETRABORANE-HEPTAKISAMMONIA  
 AD 118. 032INORG. UNKNOMCAL D 0.7144 NO 416.4 04444444 T -0.  
 H 31 B 4 N 7  
 MW 177.98 MI 42.37 NA 0.1056 MD 7.73 EM 35.87 GR 8.94

POTASSIUM PENTABORATE MONOHYDRATE  
 GR 22. 819INORG. UNKNOMCAL D 2.9888 NO 232.0 04444444 T -0.  
 H 2 B 5 K 1 0 9  
 MW 239.22 MI 17.30 NA 0.1128 MD 1.30 EM 30.70 GR 20.01

DIPOTASSIUM HYDRO-PENTABORATE HYDRATE  
 GR 55. 521INORG. SOLIDCAL D 2.3857 NO 433.7 04444444 T -0.  
 H 3 B 5 K 2 0 10  
 MW 295.32 MI 10.93 NA 0.1014 MD 1.46 EM 53.69 GR 26.13

AMMONIUM PENTABORATE  
 CA 34. 361INORG. UNKNOMCAL D 2.1637 NO 232.1 04444444 T -0.  
 H 4 B 5 N 1 0 8  
 MW 200.14 MI 17.84 NA 0.1102 MD 2.60 EM 10.98 GR 7.15

POTASSIUM PENTABORATE DIHYDRATE  
 GR 22. 819INORG. SOLIDCAL D 2.2413 NO 232.2 04444444 T -0.  
 H 5 B 5 K 2 0 11  
 MW 317.34 MI 23.82 NA 0.1026 MD 2.15 EM 55.16 GR 23.77

SODIUM PENTABORATE DIHYDRATE  
 CA 19. 261INORG. SOLIDCAL D 2.3391 NO 232.3 04444444 T -0.  
 H 5 B 5 NA 2 0 11  
 MW 281.12 MI 23.16 NA 0.1161 MD 2.51 EM 18.43 GR 9.24

PENTABORON HEPTAHYDRIDE  
 CA 36. 042INORG. UNKNOMCAL D 1.0208 NO 436.9 44444444 T -0.  
 H 7 B 5  
 MW 61.16 MI 11.85 NA 0.1191 MD 7.04 EM 12.09 GR 12.16

B 62

BH

TETRAHYDROGEN TETRAAMINODIHYDROTETRABORATE  
 CA 25. 389INORG. UNKNOMCAL D 0.9393 NO 231.4 04444444 T -0.  
 H 14 B 4 N 4  
 MW 115.42 MI 22.16 NA 0.1105 MD 6.98 EM 20.16 GR 10.05

TETRABORON OXYSULFATE-3-AMMONIA  
 GR . . . INORG. UNKNOMCAL D 1.3828 NO 436.6 44444444 T -0.  
 H 13 B 4 N 5 S 1  
 MW 240.50 MI 30.48 NA 0.1056 MD 5.20 EM 22.73 GR 7.87

TETRABORANE(11)  
 CA 31.1369INORG. . . . . EST D 0.0026 NO 231.5 04114411 T -0.  
 H 16 B 4 N 2  
 MW 59.41 MI 19.88 NA 0.1005 MD 0.04 EM 17.31 GR 0.05

POTASSIUM TETRABORATE-1,1-PHTHATE  
 GR 22. 812INORG. SOLIDCAL D 1.7377 NO 231.6 04444444 T -0.  
 H 16 B 4 K 2 0 15  
 MW 377.61 MI 37.81 NA 0.1048 MD 4.94 EM 61.83 GR 17.14

TETRABORANE(11)-BISAMMONIA  
 AD 118. 032INORG. SOLIDCAL D 0.7923 NO 416.2 04444411 T -0.  
 H 16 B 4 N 2  
 MW 87.42 MI 22.02 NA 0.1141 MD 8.24 EM 19.47 GR 10.09

AMMONIUM TETRABORATE-4-WATER  
 GR 23. 323INORG. SOLIDCAL D 1.0678 NO 13.4 04444444 T -0.  
 H 16 B 4 N 2 0 11  
 MW 263.42 MI 32.91 NA 0.0804 MD 3.91 EM 19.48 GR 4.76

TETRAHYDROGEN HEXAMINOTETRABORATE  
 CA 25. 881INORG. UNKNOMCAL D 0.9686 NO 231.8 04444444 T -0.  
 H 16 B 4 N 6  
 MW 143.46 MI 26.30 NA 0.1070 MD 6.51 EM 23.78 GR 9.67

MAGNESIUM SULFONITE-SULFONITE  
 GR . . . INORG. SOLIDCAL D 2.4200 NO 3.9 00000000 T -0.  
 H 18 B 4 MG 8 0 27 3 2  
 MW 703.48 MI 88.53 NA 0.1213 MD 3.73 EM 23.53 GR 4.88

TETRABORANE(11)-TRISAMMONIA  
 AD 95. 109INORG. SOLIDCAL D 0.7393 NO 443.2 04444411 T -0.  
 H 19 B 4 N 3  
 MW 104.46 MI 26.09 NA 0.1112 MD 8.10 EM 22.75 GR 9.70

SODIUM TETRABORATE 10-WATER  
 GR 13. 561INORG. SOLIDCAL D 1.7003 NO 13.9 00000000 T -0.  
 H 20 B 4 NA 2 0 12  
 MW 381.42 MI 43.13 NA 0.1194 MD 3.37 EM 28.04 GR 7.53

B 64

BH

POTASSIUM ACID DIHYDROGEN PENTABORATE  
 GR 32. 403INORG. SOLIDCAL D 2.0874 NO 232.5 04444444 T -0.  
 H 8 B 5 K 1 0 12  
 MW 293.21 MI 28.27 NA 0.1127 MD 1.43 EM 35.11 GR 15.05

POTASSIUM PENTABORATE TETRAHYDRATE  
 GR 22. 814INORG. SOLIDCAL D 2.0879 NO 232.4 04444444 T -0.  
 H 8 B 5 K 1 0 12  
 MW 273.25 MI 28.27 NA 0.1127 MD 1.43 EM 35.11 GR 15.05

PENTABORON ENNEHYDRIDE-PENTABORANE STABLE  
 CA 52.2077INORG. LIQUIDCAL D 0.6100 NO 3.9 01614411 T -46.60  
 H 9 B 5  
 MW 63.17 MI 13.85 NA 0.0806 MD 5.23 EM 13.56 GR 7.89

POTASSIUM NONAHYDRO-PENTABORATE  
 CA 30. 805INORG. SOLIDCAL D 1.3092 NO 232.6 04444444 T -0.  
 H 9 B 5 K 2  
 MW 141.37 MI 16.93 NA 0.0944 MD 5.02 EM 58.08 GR 32.40

DIPOTASSIUM HYDRO-PENTABORATE TETRAHYDRATE  
 CA 55. 129INORG. SOLIDCAL D 2.0331 NO 433.8 04444444 T -0.  
 H 9 B 5 K 2 0 13  
 MW 344.37 MI 29.80 NA 0.1049 MD 3.15 EM 58.10 GR 20.37

AMMONIUM PENTABORATE-2.5-WATER  
 GR 13. 561INORG. SOLIDCAL D 1.9812 NO 232.7 04444444 T -0.  
 H 14 B 10 N 2 0 21  
 MW 490.36 MI 30.63 NA 0.1232 MD 4.38 EM 29.31 GR 7.13

PENTABORON DECAHYDRIDE  
 CA 54.2011INORG. UNKNOMCAL D 0.8031 NO 232.8 04444444 T -0.  
 H 10 B 5  
 MW 66.18 MI 14.05 NA 0.1119 MD 1.54 EM 14.30 GR 10.78

LITHIUM PENTABORATE PENTAHYDRATE  
 GR 20. 221INORG. SOLIDCAL D 1.4681 NO 232.9 04444444 T -0.  
 H 10 B 5 LI 1 0 13  
 MW 279.12 MI 28.73 NA 0.1220 MD 6.25 EM 14.39 GR 6.11

PENTABORANE(11)  
 CA 53.2907 INORG. LIQUIDCAL D 0.8808 NO 233.0 04114411 T -123.40  
 H 11 B 5  
 MW 65.19 MI 15.85 NA 0.1290 MD 8.95 EM 15.03 GR 12.23

LITHIUM HEDECAHYDRO-PENTABORATE(12-1)  
 NACF 14. 243INORG. SOLIDCAL D 0.9494 NO 233.1 04414411 T -0.  
 H 11 B 5 LI 2  
 MW 79.07 MI 17.87 NA 0.1237 MD 7.62 EM 15.18 GR 10.51

B 65

BH

AMMONIUM PENTABORATE TETRAHYDRATE  
CA 53.1924INORG. SOLIDCAL D 1.8419 NO 233.2 04444444 T -0.  
H 12 B 8 N 1 O 12  
MW 272.20 MI 29.80 NA 0.1215 MD 6.89 EM 16.86 GR 6.87

PENTABORANE(91)-BISAMMONIA  
PB 14.1424INORG. SOLIDCAL D 0.8622 NO 233.3 04444444 T -0.  
H 15 B 3 N 2  
MW 97.24 MI 21.99 NA 0.1174 MD 8.01 EM 10.12 GR 10.71

PENTABORANE-TETRAAMMONIATE  
GM 33.1121INORG. UNKNOWNCAL D 0.8959 NO 233.4 04444444 T -0.  
H 21 B 5 N 4  
MW 131.80 MI 30.13 NA 0.1114 MD 7.76 EM 26.08 GR 9.87

BORIC OXIDE-0.61-WATER  
CA 54.20127INORG. GLASSCAL D 1.9816 NO 220.9 04444444 T -0.  
H 4 B 6 O 11  
MW 244.93 MI 30.71 NA 0.1009 MD 1.93 EM 11.30 GR 9.91

3-BORIC OXIDE-SULFUR TRIOXIDE-3-WATER  
CA 13.2101INORG. SOLIDCAL D 1.9517 NO 233.6 04114444 T -0.  
H 6 B 4 O 15 S 1  
MW 243.03 MI 27.97 NA 0.0989 MD 2.06 EM 11.53 GR 4.86

HEXAPOLYBONIC ACID TRIHYDRATE  
CA 32.4457INORG. SOLIDCAL D 1.7028 NO 233.7 04444444 T -0.  
H 8 B 8 O 13  
MW 280.98 MI 26.89 NA 0.0974 MD 2.92 EM 14.24 GR 5.20

HEXABORON DECAHYDROBISHEXABORANE  
CA 33.7818INORG. LIQUIDEST D 0.7000 NO 3.4 01414414 T -65.10  
H 10 B 6  
MW 75.00 MI 15.82 NA 0.0889 MD 5.82 EM 15.89 GR 8.02

DIMAGNESIUM HEXABORATE-5-WATER  
CA 55.5211INORG. SOLIDCAL D 2.2628 NO 433.9 04444444 T -0.  
H 10 B 8 OH 2 O 16  
MW 379.64 MI 34.10 NA 0.1224 MD 3.99 EM 16.78 GR 6.02

HEXABORON DODECAHYDRIDE  
CA 54.2088INORG. UNKNOWNCAL D 0.8031 NO 213.8 04444444 T -0.  
H 12 B 6  
MW 77.02 MI 17.82 NA 0.1114 MD 7.54 EM 17.15 GR 10.78

LITHIUM HEXABORATE HEXAHYDRATE  
GM 20.2211INORG. SOLIDCAL D 1.9581 NO 233.9 04444444 T -0.  
H 12 B 8 OH 2 O 16  
MW 368.90 MI 35.68 NA 0.1213 MD 4.08 EM 17.33 GR 9.89

B 67

BH

HEPTABORON TRIDECACAHYDRIDE  
CA 53.1871INORG. SOLIDCAL D 0.8444 NO 236.8 04444444 T -0.  
H 13 B 7  
MW 88.84 MI 19.79 NA 0.1191 MD 7.44 EM 19.28 GR 11.04

BORANE-HEXAKIS(SODIUM BOROHYDRIDE)  
CA 52.1243INORG. UNKNOWNCAL D 1.0004 NO 234.7 04444444 T -0.  
H 29 B 9 NA 6  
MW 240.70 MI 41.05 NA 0.1087 MD 6.75 EM 52.92 GR 13.24

5-MAGNESIA-2-BORIC OXIDE-1.5-WATER  
GM 27.2990INORG. SOLIDCAL D 2.8014 NO 227.3 04444444 T -0.  
H 6 B 8 OH 2 O 25  
MW 638.93 MI 45.83 NA 0.1211 MD 7.99 EM 18.77 GR 4.96

MAGNESIUM BORON OXIDE TETRAHYDRATE-TRIALENITE  
GM 15.1876INORG. SOLIDCAL D 2.1110 NO 3.8 00000000 T -0.  
H 8 B 8 OH 1 O 17  
MW 390.94 MI 33.81 NA 0.1099 MD 2.60 EM 17.58 GR 9.71

DIAMMONIUM OCTABORATE  
CA 51.1392INORG. SOLIDCAL D 2.0464 NO 234.8 04444444 T -0.  
H 8 B 8 N 2 O 13  
MW 350.84 MI 30.77 NA 0.1147 MD 2.98 EM 19.18 GR 7.15

ULTRAPOLYBORIC ACID TETRAHYDRATE  
CA 32.4457INORG. SOLIDCAL D 1.2442 NO 234.9 04444444 T -0.  
H 10 B 8 O 17  
MW 368.84 MI 34.59 NA 0.0708 MD 2.03 EM 18.90 GR 3.76

ULTRABORON DODECAHYDRIDE  
CA 54.2088INORG. UNKNOWNCAL D 0.9749 NO 235.0 04444444 T -0.  
H 12 B 8  
MW 98.86 MI 19.76 NA 0.1176 MD 7.14 EM 19.94 GR 11.87

MAGNESIUM OCTABORATE-6-WATER  
GM 27.2990INORG. SOLIDCAL D 2.9389 NO 235.1 04444444 T -0.  
H 12 B 8 OH 3 O 21  
MW 507.62 MI 44.21 NA 0.1227 MD 3.33 EM 21.57 GR 9.99

MAGNESIUM OCTABORATE-9-WATER  
CA 53.1584INORG. SOLIDCAL D 1.9956 NO 235.2 04444444 T -0.  
H 18 B 8 OH 3 O 22  
MW 481.02 MI 48.76 NA 0.1219 MD 4.90 EM 24.91 GR 6.22

LITHIUM OCTABORATE-10-WATER  
GM 20.2221INORG. SOLIDCAL D 1.8616 NO 235.3 04444444 T -0.  
H 20 B 8 OH 2 O 23  
MW 488.30 MI 52.55 NA 0.1206 MD 4.59 EM 26.00 GR 5.97

B 66

BH

MAGNESIUM HEXABORATE HEXAHYDRATE  
CA 53.1584INORG. SOLIDCAL D 2.0803 NO 234.0 04444444 T -0.  
H 12 B 8 OH 1 O 16  
MW 357.34 MI 34.80 NA 0.1224 MD 4.21 EM 17.71 GR 6.21

HEXABORON TETRADECACAHYDRIDE  
CA 52.1938INORG. UNKNOWNCAL D 0.7236 NO 234.1 04444444 T -0.  
H 14 B 6  
MW 79.03 MI 19.82 NA 0.1093 MD 7.72 EM 18.62 GR 10.27

MAGNESIUM HEXABORATE-7-WATER  
GM 27.2941INORG. SOLIDCAL D 1.9990 NO 234.2 04444444 T -0.  
H 14 B 8 OH 1 O 17  
MW 375.95 MI 37.87 NA 0.1213 MD 6.49 EM 19.18 GR 6.15

MAGNESIUM HEXABORATE-7.5-WATER  
CA 33.2403INORG. SOLIDCAL D 1.9432 NO 234.3 04444444 T -0.  
H 30 B 8 OH 2 O 35  
MW 788.72 MI 78.73 NA 0.1211 MD 4.81 EM 39.83 GR 8.13

HEXABORON HEXADECACAHYDRIDE  
CA 52.1938INORG. UNKNOWNCAL D 0.6613 NO 233.5 04444444 T -0.  
H 16 B 6  
MW 81.03 MI 21.82 NA 0.1072 MD 7.86 EM 20.09 GR 9.87

MAGNESIUM HEXABORATE OCTAHYDRATE  
GM 27.2941INORG. SOLIDCAL D 1.9302 NO 234.4 04444444 T -0.  
H 16 B 8 OH 1 O 18  
MW 393.87 MI 40.86 NA 0.1208 MD 4.73 EM 20.85 GR 8.10

MAGNESIUM HEXABORATE-13-WATER  
GM 13.5818INORG. GLASSKNO D 1.8500 NO 13.6 00000000 T -0.  
H 26 B 8 OH 2 O 24  
MW 523.77 MI 58.02 NA 0.1234 MD 9.93 EM 28.53 GR 6.07

DIPOTASSIUM MAGNESIUM HEXABORATE  
CA 51.1618INORG. SOLIDCAL D 1.6921 NO 234.5 04444444 T -0.  
H 30 B 8 K 2 OH 1 O 26  
MW 813.88 MI 83.86 NA 0.1094 MD 4.98 EM 75.48 GR 12.33

MAGNESIUM BORON OXIDE PENTADECACAHYDRATE-MAGNESIUM BORATE HYDRATE  
CA 23.2941INORG. SOLIDKNO D 1.8000 NO 3.7 00000000 T -0.  
H 30 B 8 OH 2 O 26  
MW 599.80 MI 84.00 NA 0.1040 MD 9.81 EM 31.67 GR 6.09

DIAMMONIUM MAGNESIUM HEXABORATE-15-WATER  
CA 51.1618INORG. SOLIDCAL D 1.9148 NO 234.6 04444444 T -0.  
H 38 B 8 OH 1 O 28  
MW 871.56 MI 72.92 NA 0.1164 MD 6.07 EM 38.98 GR 6.22

B 68

BH

AMMONIUM OCTABORATE-8-WATER  
GM 23.1211INORG. SOLIDCAL D 1.8105 NO 235.4 04444444 T -0.  
H 20 B 8 N 2 O 19  
MW 438.74 MI 48.71 NA 0.1211 MD 4.97 EM 27.99 GR 6.96

SODIUM OCTOBORATE-10-WATER  
CA 51.1618INORG. SOLIDCAL D 1.9139 NO 235.5 04444444 T -0.  
H 20 B 8 OH 2 O 23  
MW 520.70 MI 82.95 NA 0.1172 MD 4.63 EM 33.63 GR 7.44

MAGNESIUM OCTABORATE-11-WATER  
GM 27.2951INORG. SOLIDCAL D 1.8936 NO 235.6 04444444 T -0.  
H 22 B 8 OH 1 O 24  
MW 517.06 MI 54.74 NA 0.1206 MD 4.85 EM 27.85 GR 6.13

3-MAGNESIUM OXIDE-4-BORIC OXIDE-11-WATER  
GM 27.2990INORG. SOLIDCAL D 2.0116 NO 235.7 04444444 T -0.  
H 22 B 8 OH 3 O 20  
MW 597.70 MI 59.13 NA 0.1199 MD 4.46 EM 28.92 GR 5.86

MAGNESIUM OCTABORATE-12-WATER  
GM 27.2990INORG. SOLIDCAL D 1.8510 NO 235.8 04444444 T -0.  
H 24 B 8 OH 1 O 25  
MW 535.07 MI 57.73 NA 0.1203 MD 5.00 EM 29.31 GR 6.11

NONABORON PENTADECACAHYDRIDE  
CA 51.1171INORG. LIQUIDCAL D 0.9084 NO 235.9 04444444 T -20.00  
H 15 B 9  
MW 112.30 MI 23.71 NA 0.1194 MD 7.30 EM 23.93 GR 11.44

POTASSIUM DECABORATE DIHYDRATE  
GM 22.8191INORG. UNKNOWNCAL D 2.5888 NO 236.0 04444444 T -0.  
H 4 B 10 K 2 O 18  
MW 478.43 MI 54.60 NA 0.1128 MD 1.90 EM 61.40 GR 20.01

3-BORIC OXIDE-2-SULFUR TRIOXIDE-2-WATER  
GM 13.1341INORG. UNKNOWNCAL D 2.2559 NO 236.1 04444444 T -0.  
H 4 B 10 O 25 S 2  
MW 544.85 MI 39.07 NA 0.0975 MD 1.00 EM 18.40 GR 4.59

MAGNESIUM DECABORATE-4.5-WATER  
CA 54.1189INORG. SOLIDCAL D 2.9887 NO 236.2 04444444 T -0.  
H 18 B 2 OH 6 O 45  
MW 1100.46 MI 89.27 NA 0.1255 MD 2.93 EM 44.31 GR 6.23

POTASSIUM DECABORATE-5-WATER  
GM 22.1938INORG. SOLIDCAL D 2.2413 NO 236.3 04444444 T -0.  
H 10 B 10 K 4 O 22  
MW 606.00 MI 17.15 NA 0.1024 MD 2.15 EM 110.33 GR 23.77

B 67

BH

SODIUM DECARBORATE-5-WATER  
CA 55, 921110MG. SOLIDICAL D 2.3391 NO 436.1 04444444 T -0.  
M 10 B 10NA 4 0 22  
MW 962.24 MI 45.32 MA 0.1101 MD 2.51 EM 36.87 GR 9.24

DECAPOLYBIC ACID-5-WATER  
CA 32, 445710MG. SOLIDICAL D 1.7467 NO 236.4 04444444 T -0.  
M 12 B 10 0 21  
MW 496.30 MI 42.49 MA 0.0980 MD 2.77 EM 22.75 GR 5.25

DECABORON TETRADECANYHYDRODECABORANE  
CA 55, 87810MG. SOLIDICAL D 0.9400 NO 3.5 01414414 T 99.70  
M 16.8 10  
MW 122.91 MI 23.70 MA 0.1097 MD 6.48 EM 24.19 GR 11.20

DISODIUM TETRADECANYHYDRODECABORATE  
AD204, 89010MG. UNKNOWICAL D 1.5343 NO 416.5 04444444 T -0.  
M 14 B 10NA 2  
MW 168.29 MI 26.12 MA 0.1247 MD 6.69 EM 31.98 GR 15.27

SODIUM DECARBORATE-7-WATER  
CA 55, 921110MG. SOLIDICAL D 2.1963 NO 436.2 04444444 T -0.  
M 14 B 10NA 4 0 24  
MW 594.28 MI 52.30 MA 0.1156 MD 3.10 EM 39.80 GR 8.80

DECABORANE(110)  
AD244, 64910MG. UNKNOWICAL D 0.9337 NO 443.4 04444444 T -0.  
M 16 B 10  
MW 124.23 MI 25.70 MA 0.1103 MD 7.24 EM 25.66 GR 11.61

POTASSIUM DECARBORATE-8-WATER  
CA 55, 81410MG. SOLIDICAL D 2.0879 NO 236.6 04444444 T -0.  
M 16 B 10 K 2 0 24  
MW 586.53 MI 52.34 MA 0.1127 MD 3.43 EM 70.21 GR 17.04

TETRAPOTASSIUM(HEXADECANYHYDRODECABORATE)  
CA 30, 805310MG. SOLIDICAL D 1.5723 NO 236.4 04444444 T -0.  
M 16 B 10 K 4  
MW 280.73 MI 31.96 MA 0.0938 MD 4.71 EM 114.70 GR 33.77

DECABORANE-AMMONIA  
AD195, 43210MG. SOLIDICAL D 1.0927 NO 416.6 04444444 T -0.  
M 17 B 10 N 1  
MW 139.54 MI 27.77 MA 0.1312 MD 8.03 EM 27.47 GR 12.97

AMMONIUM DECARBORATE-8-WATER  
CA 30, 447610MG. SOLIDICAL D 1.9812 NO 236.7 04444444 T -0.  
M 18 B 10 N 2 0 21  
MW 490.36 MI 80.43 MA 0.1282 MD 4.38 EM 29.31 GR 7.13

B 71

BH, BK

DIPOTASSIUM DODECANYHYDRODECABORATE  
AD254, 74610MG. UNKNOWICAL D 1.5919 NO 416.8 04444444 T -0.  
M 18 B 10 K 2  
MW 280.16 MI 26.72 MA 0.1162 MD 9.13 EM 70.02 GR 29.93

DODECAPOLYBIC ACID-6-WATER  
CA 32, 445710MG. SOLIDICAL D 1.7583 NO 237.5 04444444 T -0.  
M 14 B 12 0 25  
MW 843.85 MI 80.39 MA 0.0981 MD 2.73 EM 27.01 GR 5.26

MAGNESIUM DODECABORATE-18-WATER  
CA 27, 29510MG. SOLIDICAL D 1.0299 NO 237.6 04444444 T -0.  
M 36 B 12MG 1 0 37  
MW 187.43 MI 85.49 MA 0.1284 MD 9.07 EM 43.70 GR 8.16

BORON TRIOXIDE  
CA 17, 224210MG. SOLIDICAL D 1.0283 NO 237.7 04444444 T -0.  
M 36 B 26  
MW 317.61 MI 61.22 MA 0.1194 MD 7.07 EM 62.60 GR 12.21

POTASSIUM METABORATE  
CA 22, 81010MG. SOLIDICAL D 2.1819 NO 238.0 04444444 T 990.00  
M 1 K 1 0 2  
MW 81.92 MI 4.64 MA 0.0720 MD -0. EM 23.65 GR 17.94

POTASSIUM PERBORATE  
CA 55, 227810MG. SOLIDICAL D 2.2331 NO 238.1 04444444 T -0.  
M 1 K 1 0 3  
MW 97.42 MI 5.48 MA 0.0753 MD -0. EM 23.86 GR 32.50

POTASSIUM BORATE SILICATE  
CA 51, 1746410MG. SOLIDICAL D 2.8070 NO 238.2 04444444 T -0.  
M 1 K 1 0 8S1 3  
MW 262.19 MI 14.21 MA 0.0916 MD -0. EM 26.01 GR 16.77

POTASSIUM ORTHOBORATE  
CA 55, 118310MG. SOLIDICAL D 1.9743 NO 238.3 04444444 T -0.  
M 1 K 3 0 3  
MW 176.12 MI 8.56 MA 0.0578 MD -0. EM 88.18 GR 46.03

POTASSIUM DIMETABORATE  
CA 22, 80910MG. SOLIDICAL D 2.1819 NO 238.4 04444444 T 990.00  
M 2 K 2 0 4  
MW 164.84 MI 8.98 MA 0.0720 MD -0. EM 47.31 GR 37.45

TETRAPOTASSIUM PENTOXODIBORATE  
CA 40, 123810MG. SOLIDICAL D 2.0358 NO 437.2 04444444 T -0.  
M 2 K 4 0 5  
MW 258.04 MI 13.05 MA 0.0620 MD -0. EM 91.83 GR 43.64

B 70

BH

LITHIUM DECARBORATE-10-WATER  
CA 20, 22310MG. SOLIDICAL D 1.9681 NO 236.9 04444444 T -0.  
M 20 B 10L1 2 0 26  
MW 598.24 MI 57.46 MA 0.1220 MD 4.25 EM 28.78 GR 8.11

SODIUM DECARBORATE-10-WATER  
CA 15, 93910MG. SOLIDICAL D 2.0126 NO 237.0 04444444 T -0.  
M 20 B 10NA 2 0 26  
MW 590.34 MI 57.86 MA 0.1188 MD 4.11 EM 36.42 GR 7.48

AMMONIUM DECARBORATE-8-WATER  
CA 25, 32310MG. SOLIDICAL D 1.8419 NO 237.1 04444444 T -0.  
M 20 B 10 N 2 0 24  
MW 546.61 MI 59.60 MA 0.1215 MD 4.89 EM 33.77 GR 6.87

DECABORANE-TETRAKISAMMONIA  
AD155, 43710MG. UNKNOWICAL D 0.9393 NO 416.7 04444444 T -0.  
M 26 B 10 N 4  
MW 190.44 MI 39.94 MA 0.1188 MD 7.72 EM 37.31 GR 11.08

DECABORANE-4-AMMONIA  
CA 15, 12210MG. SOLIDICAL D 0.7590 NO 237.2 04444444 T -0.  
M 32 B 10 N 8  
MW 224.80 MI 48.12 MA 0.0980 MD 6.92 EM 43.87 GR 8.93

POTASSIUM DIMAGNESIUM UNDECABORATE-9-WATER  
CA 15, 5610MG. GLASSING D 2.1000 NO 13.7 00000000 T -0.  
M 18 B 11 K 1MG 2 0 28  
MW 672.00 MI 40.37 MA 0.1119 MD 3.36 EM 51.88 GR 9.75

DIMAGNESIUM POTASSIUM UNDECABORATE-9-WATER  
CA 55, 92110MG. SOLIDICAL D 2.1831 NO 436.3 04444444 T -0.  
M 18 B 11 K 1MG 2 0 28  
MW 672.00 MI 40.37 MA 0.1180 MD 3.92 EM 51.88 GR 10.14

DIMAGNESIUM POTASSIUM UNDECABORATE-19-WATER  
CA 55, 92110MG. SOLIDICAL D 1.8212 NO 436.4 04444444 T -0.  
M 38 B 11 K 1MG 2 0 38  
MW 893.06 MI 90.37 MA 0.1181 MD 4.84 EM 66.57 GR 8.96

6-NORIC OXIDE-2-HYDRAZINE  
CA 15, 11210MG. UNKNOWICAL D 2.2099 NO 237.3 04444444 T -0.  
M 8 B 12 N 4 0 18  
MW 481.94 MI 61.74 MA 0.1193 MD 2.21 EM 26.91 GR 7.43

DODECABORON DODECANYHYDRODECABORANE  
CA 52, 193810MG. SOLIDICAL D 1.2697 NO 237.4 04444444 T -0.  
M 12 B 12  
MW 141.94 MI 28.64 MA 0.1274 MD 6.47 EM 25.90 GR 13.74

B 72

BK

POTASSIUM TRICBORATE  
CA 51, 198210MG. SOLIDICAL D 2.4856 NO 239.5 04444444 T -0.  
M 3 K 1 0 5  
MW 151.96 MI 9.40 MA 0.0729 MD -0. EM 26.44 GR 26.12

DIPOTASSIUM HEXADIBORATE  
CA 22, 80810MG. SOLIDICAL D 2.3583 NO 238.6 04444444 T -0.  
M 4 K 2 0 8  
MW 217.44 MI 12.40 MA 0.0843 MD -0. EM 50.09 GR 32.72

POTASSIUM TETRABORATE  
CA 22, 80910MG. SOLIDICAL D 2.3699 NO 238.7 04444444 T 819.00  
M 4 K 2 0 8  
MW 233.68 MI 14.89 MA 0.0849 MD -0. EM 50.10 GR 30.63

POTASSIUM PENTABORATE  
CA 22, 81410MG. SOLIDICAL D 2.6207 NO 238.8 04444444 T -0.  
M 5 K 1 0 8  
MW 221.20 MI 14.31 MA 0.1021 MD -0. EM 29.23 GR 20.86

POTASSIUM HEXABORATE  
CA 22, 81310MG. SOLIDICAL D 2.4856 NO 238.9 04444444 T -0.  
M 6 K 2 0 10  
MW 303.12 MI 18.40 MA 0.0929 MD -0. EM 52.88 GR 26.12

POTASSIUM HEXABORATE  
CA 51, 173810MG. SOLIDICAL D 2.2886 NO 239.0 04444444 T -0.  
M 6 K 4 0 11  
MW 397.32 MI 22.87 MA 0.0793 MD -0. EM 97.41 GR 33.79

POTASSIUM OCTABORATE  
CA 22, 80910MG. SOLIDICAL D 2.5640 NO 239.1 04444444 T 857.00  
M 8 K 2 0 15  
MW 372.76 MI 23.71 MA 0.0962 MD -0. EM 55.67 GR 23.07

POTASSIUM NONABORATE  
CA 51, 198210MG. SOLIDICAL D 2.7462 NO 239.2 04444444 T -0.  
M 9 K 1 0 14  
MW 360.48 MI 24.13 MA 0.1107 MD -0. EM 34.80 GR 15.97

POTASSIUM DECARBORATE  
CA 22, 80910MG. SOLIDICAL D 2.6207 NO 239.3 04444444 T 780.00  
M 10 K 2 0 16  
MW 442.40 MI 28.62 MA 0.1021 MD -0. EM 58.46 GR 20.86

POTASSIUM DIMAGNESIUM UNDECABORATE  
CA 40, 179310MG. SOLIDICAL D 2.8173 NO 437.3 04444444 T -0.  
M 11 K 1MG 2 0 19  
MW 510.76 MI 31.46 MA 0.1112 MD -0. EM 58.66 GR 12.45

M 73 BLI

LITHIUM TETRABORATE  
CA 49 767INRG. SOLIDCAL D 1.7704 NO 239.4 0444444 T -0.  
B 1L1 1 0 2  
MW 189.06 MI 14.02 NA 0.0859 MD -0. EM 14.42 GR 8.31

LITHIUM METABORATE  
GM 20. 2201INRG. SOLIDCAL D 2.3307 NO 239.3 0444444 T 845.00  
B 1L1 1 0 2  
MW 49.28 MI 3.96 NA 0.1117 MD -0. EM 1.47 GR 4.13

LITHIUM BORIC  
CA 51 851INRG. SOLIDCAL D 0.7466 NO 239.6 0444444 T -0.  
B 1L1 3  
MW 31.64 MI 4.00 NA 0.0909 MD -0. EM 1.62 GR 2.43

LITHIUM ORTHOBORATE  
CA 53 14447INRG. SOLIDCAL D 1.9406 NO 239.7 0444444 T 819.00  
B 1L1 3 0 1  
MW 70.64 MI 8.97 NA 0.1084 MD -0. EM 1.63 GR 2.41

SODIUM LITHIUM DIMETABORATE  
CA 54 10609INRG. SOLIDCAL D 2.4050 NO 239.8 0444444 T -0.  
B 2L1 1 NA 1 0 4  
MW 119.87 MI 8.12 NA 0.1018 MD -0. EM 6.76 GR 8.47

LITHIUM METABORATE(METABORATE)  
GM 20. 490INRG. SOLIDCAL D 2.4860 NO 13.8 00440000 T -0.  
B 2L1 2 0 4  
MW 49.52 MI 7.93 NA 0.1192 MD -0. EM 2.94 GR 4.43

LITHIUM DIMETABORATE  
GM 20. 490INRG. SOLIDCAL D 2.3307 NO 239.9 0444444 T 740.00  
B 2L1 2 0 4  
MW 99.52 MI 7.93 NA 0.1117 MD -0. EM 7.94 GR 4.15

LITHIUM TETRABORATE  
GM 20. 490INRG. SOLIDCAL D 2.3580 NO 240.2 0444444 T 925.00  
B 2L1 2 0 1  
MW 109.10 MI 22.83 NA 0.1109 MD -0. EM 9.73 GR 9.22

2-LITHIUM OXIDE-2-BORIC OXIDE  
CA 52 14447INRG. SOLIDCAL D 2.0881 NO 240.0 0444444 T -0.  
B 2L1 4 0 5  
MW 129.60 MI 10.93 NA 0.1047 MD -0. EM 3.10 GR 3.01

LITHIUM TRIBORATE  
CA 50 1965INRG. SOLIDCAL D 2.6684 NO 240.1 0444444 T -0.  
B 3L1 1 0 3  
MW 119.60 MI 8.87 NA 0.1193 MD -0. EM 4.26 GR 9.73

B 75 12K

MAGNESIUM DIMALATE  
CA 39 2249INRG. SOLIDCAL D 3.0038 NO 241.0 0444444 T 1300.00  
B 2MG 2 0 5  
MW 150.28 MI 9.33 NA 0.1123 MD -0. EM 3.06 GR 4.64

TRIMAGNESIUM DIBORIDE  
CA 47 9884INRG. SOLIDCAL D 3.0009 NO 241.1 0444444 T -0.  
B 2MG 3  
MW 96.60 MI 5.60 NA 0.0713 MD -0. EM 4.38 GR 9.38

MAGNESIUM ORTHOBORATE  
GM 13. 34INRG. SOLIDCAL D 3.0800 NO 14.0 00000000 T 1360.00  
B 2MG 3 0 6  
MW 100.60 MI 11.54 NA 0.1123 MD -0. EM 4.39 GR 4.22

MAGNESIUM TETRABORIDE  
CA 39 1819INRG. SOLIDCAL D 2.2770 NO 241.2 0444444 T -0.  
B 4MG 1  
MW 67.60 MI 5.10 NA 0.1083 MD -0. EM 6.10 GR 12.35

MAGNESIUM OXIDE-DISIDIBORON MONOXIDE  
GM 27. 242INRG. SOLIDCAL D 3.3066 NO 241.3 0444444 T -0.  
B 4MG 1 0 1  
MW 119.60 MI 5.07 NA 0.1390 MD -0. EM 6.10 GR 10.52

MAGNESIUM OXIDE-TETRABORON PENTOXIDE  
GM 27. 292INRG. SOLIDCAL D 3.0379 NO 241.4 0444444 T -0.  
B 4MG 1 0 4  
MW 107.60 MI 11.04 NA 0.1235 MD -0. EM 6.11 GR 6.83

MAGNESIUM TETRABORATE  
CA 39 3199INRG. SOLIDCAL D 2.9856 NO 241.5 0444444 T -0.  
B 4MG 3 0 7  
MW 179.60 MI 12.03 NA 0.1204 MD -0. EM 6.11 GR 6.12

3-MAGNESIUM OXIDE-2-BORIC OXIDE  
GM 27. 299INRG. SOLIDCAL D 2.9995 NO 241.6 0444444 T -0.  
B 4MG 3 0 9  
MW 200.24 MI 16.43 NA 0.1142 MD -0. EM 7.18 GR 4.98

DIMAGNESIUM PENTABORIDE  
CA 30 3937INRG. SOLIDCAL D 2.1907 NO 437.4 1444444 T -0.  
B 5MG 2  
MW 102.74 MI 7.29 NA 0.0936 MD -0. EM 8.02 GR 10.31

MAGNESIUM HEXABORIDE  
CA 36 18145INRG. SOLIDCAL D 2.3404 NO 241.7 0444444 T -0.  
B 6MG 1  
MW 89.24 MI 7.04 NA 0.1112 MD -0. EM 6.88 GR 14.03

B 74 BLI/IRG

3-LITHIUM OXIDE-2-BORIC OXIDE  
CA 53 14447INRG. SOLIDCAL D 2.1871 NO 240.3 0444444 T 700.00  
B 3L1 4 0 9  
MW 228.92 MI 18.83 NA 0.1085 MD -0. EM 4.04 GR 3.48

LITHIUM PENTABORATE  
GM 20. 492INRG. SOLIDCAL D 2.7714 NO 240.4 0444444 T 880.00  
B 3L1 1 0 8  
MW 189.04 MI 13.78 NA 0.1217 MD -0. EM 7.05 GR 6.22

LITHIUM HEXABORIDE  
CA 51 16187INRG. SOLIDCAL D 1.9330 NO 240.5 0444444 T -0.  
B 3L1 1  
MW 71.86 MI 6.83 NA 0.1107 MD -0. EM 6.43 GR 13.65

LITHIUM HEXABORATE  
GM 20. 490INRG. SOLIDCAL D 2.6664 NO 240.6 0444444 T 750.00  
B 3L1 2 0 10  
MW 238.80 MI 17.74 NA 0.1193 MD -0. EM 8.52 GR 9.73

LITHIUM OCTOBORATE  
GM 20. 490INRG. SOLIDCAL D 2.7298 NO 240.7 0444444 T 730.00  
B 3L1 2 0 13  
MW 308.44 MI 22.65 NA 0.1207 MD -0. EM 11.31 GR 6.03

LITHIUM PENTABORATE  
GM 20. 490INRG. SOLIDCAL D 2.8417 NO 240.8 0444444 T 880.00  
B 3L1 1 0 17  
MW 387.14 MI 27.54 NA 0.1218 MD -0. EM 14.02 GR 4.20

LITHIUM DECARBORATE  
GM 20. 490INRG. SOLIDCAL D 2.7714 NO 240.9 0444444 T 680.00  
B 3L1 2 0 16  
MW 378.08 MI 27.54 NA 0.1217 MD -0. EM 14.04 GR 6.22

MAGNESIUM DIBORIDE-MAGNESIUM BORIDE  
CA 32 19650INRG. SOLIDCAL D 2.4030 NO 4.4 00000000 T -0.  
B 2MG 1  
MW 49.54 MI 3.16 NA 0.1089 MD -0. EM 3.32 GR 10.80

MAGNESIUM DIBORIDE  
CA 39 4874INRG. SOLIDCAL D 2.4850 NO 410.5 0444444 T -0.  
B 2MG 1 0 4  
MW 109.60 MI 7.12 NA 0.0989 MD -0. EM 3.32 GR 4.42

MAGNESIUM DIMETABORATE  
GM 27. 299INRG. SOLIDCAL D 2.6000 NO 13.9 00440444 T -0.  
B 2MG 1 0 4  
MW 109.60 MI 7.12 NA 0.1014 MD -0. EM 3.32 GR 4.73

B 76 12K/IRG

MAGNESIUM HEXABORATE  
CA 39 24590INRG. SOLIDCAL D 2.0817 NO 241.8 0444444 T -0.  
B 6MG 1 0 10  
MW 249.24 MI 18.94 NA 0.1281 MD -0. EM 8.90 GR 6.41

2-MAGNESIUM OXIDE-3-BORIC OXIDE  
CA 39 19640INRG. SOLIDCAL D 2.9889 NO 241.9 0444444 T -0.  
B 6MG 2 0 11  
MW 289.66 MI 19.13 NA 0.1191 MD -0. EM 9.43 GR 3.86

3-MAGNESIUM OXIDE-4-BORIC OXIDE  
GM 27. 299INRG. SOLIDCAL D 2.9900 NO 242.0 0444444 T -0.  
B 6MG 3 0 15  
MW 399.52 MI 26.27 NA 0.1184 MD -0. EM 12.76 GR 9.79

MAGNESIUM DODECABORIDE  
CA 32 19650INRG. SOLIDCAL D 2.4359 NO 242.1 0444444 T -0.  
B 12MG 1  
MW 194.16 MI 12.88 NA 0.1224 MD -0. EM 17.23 GR 16.40

MOISSAN BORON  
CA 53 11212INRG. SOLIDCAL D 4.5349 NO 242.2 0444444 T -0.  
B 50MG 2 0 1  
MW 609.64 MI 91.93 NA 0.2362 MD -0. EM 70.49 GR 31.86

BORON NITRIDE(CURIC)  
CA 51 11905INRG. SOLIDCAL D 3.4500 NO 4.9 04404440 T -0.  
B 1 N 1  
MW 24.83 MI 2.04 NA 0.1707 MD -0. EM 2.47 GR 20.88

BORON NITRIDE(HEXA)  
HR 4 INRG. SOLIDCAL D 2.2500 NO 14.1 04404440 T 3000.00  
B 1 N 1  
MW 24.83 MI 2.04 NA 0.1114 MD -0. EM 2.47 GR 13.47

SODIUM BORAZIDE  
CA 49 767INRG. SOLIDCAL D 1.8308 NO 242.3 0444444 T -0.  
B 1 N 12 NA 1  
MW 201.91 MI 19.02 NA 0.0824 MD -0. EM 18.23 GR 10.00

DIBORON DINITRIDE  
CA 36 3072INRG. UNKNOWCAL D 2.0730 NO 437.5 4444444 T -0.  
B 2 N 2  
MW 49.66 MI 4.08 NA 0.1026 MD -0. EM 4.96 GR 12.43

SODIUM METABORATE  
CA 36 3072INRG. SOLIDCAL D 2.4640 NO 3.0 00104440 T 966.00  
B 1 NA 1 0 2  
MW 65.81 MI 4.16 NA 0.0938 MD -0. EM 5.29 GR 11.93

U 77 BNA

SODIUM PERBORATE  
CA 521137210MG. SOLIDCAL D 2.4787 MD 242.4 04444444 T -0.  
B 1NA 1 U 3  
MW 511.81 MI 5.15 NA 0.0940 MD -0. EM 5.29 GR 9.66

SODIUM MONOSILICATE  
CA 521169710MG. GLASSCAL D 2.7777 MD 242.4 00000000 T -0.  
B 1NA 1 O 451 1  
MW 125.40 MI 7.40 NA 0.0983 MD -0. EM 4.07 GR 8.07

HECUMENUNITE  
CA 541131010MG. SOLIDKNO D 2.6900 MD 186.1 04444444 T -0.  
B 1NA 1 O 851 3  
MW 246.08 MI 13.88 NA 0.0914 MD -0. EM 7.64 GR 9.03

HAZROPS  
CA 311529110MG. SOLIDCAL D 2.6075 MD 242.6 44444444 T -0.  
B 1NA 2 O 5 P 1  
MW 167.78 MI 9.67 NA 0.0909 MD -0. EM 11.01 GR 10.31

SODIUM ORTHOBORATE  
CA 541799410MG. SOLIDCAL D 2.2544 MD 242.7 04444444 T -0.  
B 1NA 3 O 3  
MW 127.79 MI 7.57 NA 0.0804 MD -0. EM 13.08 GR 11.90

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 2.8977 MD 242.8 00000000 T -0.  
B 1NA 5 O 2451 10  
MW 790.67 MI 43.38 NA 0.0958 MD -0. EM 28.72 GR 8.31

DISODIUM METABORATE  
CA 31165910MG. SOLIDKNO D 1.3840 MD 14.2 04444444 T 967.00  
B 2NA 2 O 4  
MW 131.62 MI 8.32 NA 0.0827 MD -0. EM 10.58 GR 8.70

SODIUM DIBORATE  
CA 31193410MG. SOLIDCAL D 2.3217 MD 242.9 04444444 T 625.00  
B 2NA 4 O 5  
MW 193.60 MI 11.73 NA 0.0847 MD -0. EM 18.37 GR 13.27

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 2.9439 MD 243.0 00000000 T -0.  
B 2NA 8 O 4781 20  
MW 1810.37 MI 83.33 NA 0.0973 MD -0. EM 49.64 GR 9.80

20-SODIUM OXIDE-BORIC OXIDE-80-SILICA  
CA 541726210MG. GLASSCAL D 2.7855 MD 243.1 00000000 T -0.  
B 1NA 20 O 6451 26  
MW 2274.98 MI 121.29 NA 0.0915 MD -0. EM 99.70 GR 7.52

B 79 BNA

SODIUM MONOTHIOETRIABORATE  
CA 5211905210MG. SOLIDCAL D 2.7671 MD 244.2 04444444 T -0.  
B 1NA 2 O 6 S 1  
MW 217.32 MI 13.54 NA 0.1039 MD -0. EM 16.12 GR 10.93

SODIUM TETRABORATE-BORAX-KERNITE  
CA 541119410MG. SOLIDKNO D 2.1870 MD 5.1 00000000 T 741.00  
B 4NA 2 O 7  
MW 201.26 MI 13.23 NA 0.0937 MD -0. EM 13.37 GR 9.47

SODIUM PENTETRIABORATE  
CA 541174310MG. SOLIDCAL D 2.5996 MD 244.3 04444444 T -0.  
B 4NA 2 O 11  
MW 285.26 MI 17.19 NA 0.1015 MD -0. EM 13.37 GR 7.89

SODIUM TETRABORATE-SODIUM SULFATE  
CA 304196110MG. SOLIDCAL D 2.9477 MD 244.4 04444444 T -0.  
B 4NA 4 O 11 6 1  
MW 393.30 MI 20.91 NA 0.0942 MD -0. EM 21.42 GR 9.88

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 2.8897 MD 244.5 00000000 T -0.  
B 4NA 10 O 4951 19  
MW 1590.90 MI 88.43 NA 0.0967 MD -0. EM 59.43 GR 8.50

SODIUM PENTABORATE  
CA 161396810MG. SOLIDCAL D 2.7879 MD 244.6 04444444 T -0.  
B 4NA 1 O 8  
MW 205.09 MI 13.98 NA 0.1145 MD -0. EM 10.86 GR 8.61

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 2.8668 MD 244.7 00000000 T -0.  
B 4NA 6 O 2451 8  
MW 809.77 MI 40.72 NA 0.0976 MD -0. EM 32.72 GR 8.48

SODIUM MONOTHIOETRIABORATE  
CA 5211905210MG. SOLIDCAL D 2.7147 MD 244.8 04444444 T -0.  
B 4NA 2 O 9 S 1  
MW 286.19 MI 13.45 NA 0.1090 MD -0. EM 18.91 GR 9.99

SODIUM HEXABORATE  
CA 31167010MG. SOLIDCAL D 2.7017 MD 244.9 04444444 T 699.00  
B 6NA 2 O 10  
MW 270.90 MI 18.14 NA 0.1090 MD -0. EM 16.15 GR 9.70

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 2.8679 MD 245.0 00000000 T -0.  
B 1NA 10 O 4851 17  
MW 1540.36 MI 86.86 NA 0.0975 MD -0. EM 60.85 GR 8.81

B 78 BNA

20-SODIUM OXIDE-BORIC OXIDE-80-SILICA  
CA 541726210MG. GLASSCAL D 2.8231 MD 243.2 00000000 T -0.  
B 1NA 20 O 7281 30  
MW 2465.34 MI 134.28 NA 0.0926 MD -0. EM 102.84 GR 7.07

20-SODIUM OXIDE-BORIC OXIDE-60-SILICA  
CA 541726210MG. GLASSCAL D 2.8397 MD 243.3 00000000 T -0.  
B 1NA 20 O 7681 32  
MW 2585.32 MI 140.73 NA 0.0931 MD -0. EM 104.41 GR 6.91

20-SODIUM OXIDE-BORIC OXIDE-80-SILICA  
CA 541726210MG. GLASSCAL D 2.8349 MD 243.4 00000000 T -0.  
B 1NA 20 O 8081 34  
MW 2709.70 MI 147.21 NA 0.0936 MD -0. EM 105.98 GR 6.74

20-SODIUM OXIDE-BORIC OXIDE-72-SILICA  
CA 541726210MG. GLASSCAL D 2.8690 MD 243.5 00000000 T -0.  
B 1NA 20 O 8481 36  
MW 2829.88 MI 153.69 NA 0.0940 MD -0. EM 107.54 GR 6.58

20-SODIUM OXIDE-BORIC OXIDE-76-SILICA  
CA 541726210MG. GLASSCAL D 2.8820 MD 243.6 00000000 T -0.  
B 1NA 20 O 8881 38  
MW 2949.06 MI 160.17 NA 0.0944 MD -0. EM 109.11 GR 6.43

20-SODIUM OXIDE-BORIC OXIDE-80-SILICA  
CA 541726210MG. GLASSCAL D 2.8941 MD 243.7 00000000 T -0.  
B 1NA 20 O 9281 40  
MW 3068.24 MI 166.65 NA 0.0947 MD -0. EM 110.68 GR 6.29

20-SODIUM OXIDE-BORIC OXIDE-84-SILICA  
CA 541726210MG. GLASSCAL D 2.9034 MD 243.8 00000000 T -0.  
B 1NA 20 O 9681 42  
MW 3186.42 MI 173.13 NA 0.0951 MD -0. EM 112.25 GR 6.17

SODIUM TRIBORATE  
CA 31167010MG. SOLIDCAL D 2.7017 MD 243.9 04444444 T 699.00  
B 3NA 1 O 5  
MW 175.43 MI 9.07 NA 0.1090 MD -0. EM 8.08 GR 9.70

SODIUM HEXETRIABORATE  
CA 541107010MG. SOLIDCAL D 2.4616 MD 244.0 04444444 T -0.  
B 6NA 3 O 8  
MW 197.43 MI 12.48 NA 0.0938 MD -0. EM 15.87 GR 11.93

SODIUM HEXATE SILICATE  
CA 541726210MG. GLASSCAL D 2.8819 MD 244.1 00000000 T -0.  
B 6NA 6 O 7681 9  
MW 800.77 MI 40.72 NA 0.0977 MD -0. EM 30.72 GR 8.68

B 80 BNA

SODIUM MONOTHIOETRIABORATE  
CA 5211905210MG. SOLIDCAL D 2.8442 MD 245.1 04444444 T -0.  
B 2NA 2 O 12 S 1  
MW 359.80 MI 28.36 NA 0.1122 MD -0. EM 19.70 GR 9.66

SODIUM POLYBORATE  
CA 541155110MG. GLASSCAL D 2.7530 MD 411.0 04444444 T -0.  
B 4NA 2 O 11  
MW 340.54 MI 23.05 NA 0.1182 MD -0. EM 18.94 GR 9.22

SODIUM OCTABORATE  
CA 304196110MG. SOLIDCAL D 2.7930 MD 245.2 04444444 T 816.00  
B 8NA 2 O 3  
MW 390.34 MI 23.05 NA 0.1182 MD -0. EM 18.94 GR 9.22

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 2.8742 MD 245.3 00000000 T -0.  
B 8NA 10 O 181 17  
MW 1610.00 MI 91.77 NA 0.0987 MD -0. EM 63.44 GR 8.82

10-SODIUM OXIDE-BORIC OXIDE-80-SILICA  
CA 541726210MG. GLASSCAL D 2.9459 MD 245.4 00000000 T -0.  
B 4NA 16 O 51 40  
MW 3038.74 MI 88.70 NA 0.0973 MD -0. EM 99.28 GR 5.50

SODIUM NONABORATE  
CA 311156210MG. SOLIDCAL D 2.8596 MD 245.5 04444444 T -0.  
B 9NA 1 O 1  
MW 344.37 MI 23.80 MI 0.1190 MD -0. EM 19.44 GR 8.22

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 2.9709 MD 245.6 00000000 T -0.  
B 10NA 6 O 4 51 17  
MW 1533.68 MI 89.86 NA 0.1034 MD -0. EM 50.63 GR 5.83

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 2.9114 MD 245.7 00000000 T -0.  
B 10NA 8 O 5181 16  
MW 1557.57 MI 90.03 NA 0.1014 MD -0. EM 57.65 GR 6.49

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 1.0000 MD 245.8 00000000 T -0.  
B 12NA 10 O 51 13  
MW 1629.10 MI 95.11 NA 0.0932 MD -0. EM 67.65 GR 2.49

SODIUM BORATE SILICATE  
CA 541726210MG. GLASSCAL D 2.8871 MD 245.9 00000000 T -0.  
B 18NA 8 O 451 13  
MW 1586.22 MI 95.04 NA 0.1047 MD -0. EM 63.66 GR 6.98

R MI

BNL/BO

## SODIUM BORATE SILICATE

CA 94. 7262INORG. GLASSCAL D 2.8447 NO 246.0 00000000 T -0.  
 B 16NA 10 D 5811 19  
 MW 1648.20 MI 98.45 NA 0.1023 MD -0. EM 71.45 GR 7.41

20-SODIUM OXIDE-12-BORIC OXIDE-84-SILICA  
 CA 94. 7262INORG. GLASSCAL D 2.8599 NO 246.1 00000000 T -0.  
 B 12NA 20 D 9611 34  
 MW 3080.72 MI 173.72 NA 0.0975 MD -0. EM 121.31 GR 6.81

10-SODIUM OXIDE-20-BORIC OXIDE-84-SILICA  
 CA 94. 7262INORG. GLASSCAL D 2.9114 NO 246.2 00000000 T -0.  
 B 10NA 10 D 5111 16  
 MW 1537.97 MI 90.03 NA 0.1014 MD -0. EM 57.85 GR 6.49

4-SODIUM OXIDE-36-BORIC OXIDE-68-SILICA  
 CA 94. 7262INORG. GLASSCAL D 3.0772 NO 246.3 00000000 T -0.  
 B 14NA 2 D 5011 17  
 MW 1570.99 MI 92.86 NA 0.1096 MD -0. EM 40.84 GR 4.79

10-SODIUM OXIDE-32-BORIC OXIDE-82-SILICA  
 CA 94. 7262INORG. GLASSCAL D 2.8871 NO 246.4 00000000 T -0.  
 B 16NA 8 D 5411 19  
 MW 1586.22 MI 95.04 NA 0.1042 MD -0. EM 63.66 GR 6.98

MONOBORON MONOSILIDE  
 CA 53.1662INORG. SOLIDKNO D 1.7890 NO 5.2 44444444 T -0.  
 B 1 D 1  
 MW 26.82 MI 1.98 NA 0.0777 MD -0. EM 1.39 GR 5.52

MONOBORON PHOSPHATE  
 CA 53.1480INORG. SOLIDCAL D 2.8019 NO 246.5 04444444 T -0.  
 B 1 D 4 P 1  
 MW 105.79 MI 6.26 NA 0.0998 MD -0. EM 3.22 GR 5.14

DIBORON MONOSILIDE  
 CA 54. 7221INORG. UNKNOMCAL D 1.8768 NO 437.6 44444444 T -0.  
 B 2 D 1  
 MW 17.64 MI 2.93 NA 0.0880 MD -0. EM 3.78 GR 8.36

DIBORON DIOXIDE  
 CA 54. 8591INORG. GASEST D 0.0024 NO 246.6 04444444 T -0.  
 B 2 U 2  
 MW 53.84 MI 3.92 NA 0.0001 MD -0. EM 2.79 GR 0.01

UNBURNED TRIOXIDE-BORON OXIDE-BORIC OXIDE-BORIC ANHYDRIDE  
 CA 53.1205INORG. SOLIDKNO D 1.8440 NO 5.3 00010000 T 465.00  
 B 2 D 3  
 MW 69.64 MI 4.91 NA 0.0783 MD -0. EM 2.79 GR 4.45

R B3

BN/BO/BN1

## BORON PHOSPHIDE

CA 52. 1137INORG. SOLIDCAL D 2.4826 NO 247.3 04444444 T -0.  
 B 1 P 1  
 MW 41.79 MI 2.30 NA 0.0816 MD -0. EM 3.21 GR 11.41

PENTABORON TRIPHOSPHIDE  
 CA 54. 7392INORG. SOLIDCAL D 2.4791 NO 247.4 04444444 T -0.  
 B 5 P 3  
 MW 147.02 MI 8.84 NA 0.0898 MD -0. EM 12.43 GR 12.52

HEXABORON PHOSPHIDE  
 CA 54.1304INORG. SOLIDCAL D 2.3272 NO 247.5 04044444 T -0.  
 B 6 P 1  
 MW 95.89 MI 7.13 NA 0.1139 MD -0. EM 10.17 GR 16.15

MONOBORON MONOSULFIDE  
 CA 45. 8864INORG. SOLIDCAL D 2.2601 NO 247.6 04444444 T -0.  
 B 1 S 1  
 MW 42.88 MI 2.27 NA 0.0721 MD -0. EM 2.15 GR 6.83

DIBORON TRISULFIDE-BORON TRISULFIDE  
 CA 53. 7527INORG. SOLIDKNO D 1.9900 NO 5.4 04414444 T 310.00  
 B 2 S 3  
 MW 117.62 MI 5.84 NA 0.0463 MD -0. EM 5.08 GR 4.01

UNBURNED PENTASULFIDE-BORON PENTASULFIDE  
 CA 53. 7527INORG. SOLIDKNO D 1.8900 NO 5.5 04414444 T -0.  
 B 5 S 5  
 MW 161.94 MI 8.44 NA 0.0817 MD -0. EM 8.58 GR 4.03

TETRABORON MONOSULFIDE  
 CA 13. 1291INORG. SOLIDCAL D 2.3879 NO 247.7 44444444 T -0.  
 B 4 S 1  
 MW 75.34 MI 5.18 NA 0.0989 MD -0. EM 6.32 GR 12.07

BORON SILICIDE  
 CA 54. 8372INORG. SOLIDCAL D 2.5361 NO 247.8 04444444 T -0.  
 B 1 S 1  
 MW 38.91 MI 2.23 NA 0.0875 MD -0. EM 2.17 GR 6.33

BORON HEXASILICIDE  
 CA 53.1481INORG. SOLIDCAL D 2.9232 NO 247.9 04444444 T -0.  
 B 1 S 6  
 MW 179.36 MI 8.53 NA 0.0723 MD -0. EM 4.08 GR 5.15

TRIBORON SILICIDE  
 CA 50. 7639INORG. SOLIDKNO D 2.5000 NO 5.6 00000000 T -0.  
 B 3 S 1  
 MW 60.93 MI 4.17 NA 0.1037 MD -0. EM 4.96 GR 12.33

B 87

DO

## BORIC OXIDE-SULFUR DIOXIDE

CA 13. 2101INORG. UNKNOMCAL D 1.6405 NO 410.6 04444444 T -0.  
 B 2 D 1 S 1  
 MW 133.70 MI 8.19 NA 0.0665 MD -0. EM 3.35 GR 2.62

BORIC OXIDE-SILICON DIOXIDE  
 CA 26. 3636INORG. GLASSCAL D 3.0791 NO 246.7 00000000 T -0.  
 B 2 D 1 S 1  
 MW 129.73 MI 8.15 NA 0.1167 MD -0. EM 5.57 GR 5.12

BORIC OXIDE-SULFUR TRIOXIDE  
 CA 13. 1341INORG. UNKNOMCAL D 2.7076 NO 246.8 04414144 T -0.  
 B 2 D 6 S 1  
 MW 149.70 MI 9.18 NA 0.1000 MD -0. EM 3.35 GR 3.87

BORON OXIDE-S-SULFUR TRIOXIDE  
 CA 22. 3611INORG. UNKNOMCAL D 1.6073 NO 437.7 04444444 T -0.  
 B 2 D 9 S 2  
 MW 229.76 MI 15.45 NA 0.0567 MD -0. EM 4.31 GR 1.82

TETRABORON MONOSILIDE  
 CA 13. 1411INORG. UNKNOMCAL D 1.9494 NO 246.9 44444444 T -0.  
 B 3 D 1  
 MW 48.44 MI 3.90 NA 0.0969 MD -0. EM 4.18 GR 10.17

TETRABORON TETROXIDE  
 CA 30.1284INORG. UNKNOMCAL D 1.6004 NO 437.9 44444444 T -0.  
 B 4 D 4  
 MW 107.28 MI 7.84 NA 0.0764 MD -0. EM 5.57 GR 5.29

TETRABORON PENTOXIDE  
 CA 13. 1251INORG. UNKNOMCAL D 1.6413 NO 418.0 44444444 T -0.  
 B 4 D 5  
 MW 123.18 MI 8.03 NA 0.0708 MD -0. EM 5.57 GR 4.47

TETRABORON HEXOXIDE  
 CA 53. 8671INORG. SOLIDCAL D 1.6040 NO 247.0 04444444 T -0.  
 B 4 D 6  
 MW 139.28 MI 9.82 NA 0.0882 MD -0. EM 5.57 GR 3.87

HEXABORON MONOSILIDE  
 CA 37. 3211INORG. SOLIDCAL D 2.1987 NO 247.1 04444444 T -0.  
 B 6 D 1  
 MW 80.92 MI 5.81 NA 0.1114 MD -0. EM 6.33 GR 13.86

HEPTABORON MONOSILIDE  
 CA 55. 1971INORG. SOLIDCAL D 2.2860 NO 247.2 04444444 T -0.  
 B 7 D 1  
 MW 91.74 MI 9.78 NA 0.1142 MD -0. EM 7.74 GR 14.10

R 84

BN1

## TETRABORON SILICIDE

CA 54.1243INORG. SOLIDKNO D 2.4400 NO 178.8 04444444 T -0.  
 B 4 S 1  
 MW 71.37 MI 3.14 NA 0.1058 MD -0. EM 6.33 GR 13.07

HEXABORON SILICIDE  
 CA 51. 7099INORG. SOLIDKNO D 2.6700 NO 5.7 00000000 T -0.  
 B 6 S 1  
 MW 136.01 MI 7.08 NA 0.1133 MD -0. EM 4.13 GR 14.60

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